

LED Display

7-segment LED Display.....	P1-33
Single Digit LED Display.....	P1-10
Dual Digit LED Display.....	P11-18
Triple Digit LED Display.....	P18-23
Quadruple Digit LED Display.....	P23-32
Quintuple Digit LED Display.....	P32-33
SMD 7-segment LED Display.....	P34-41
Single Digit SMD LED Display.....	P34-35
Dual Digit SMD LED Display.....	P36-37
Triple Digit SMD LED Display.....	P38-39
Quadruple Digit SMD LED Display.....	P40-41
Dot Matrix LED Display.....	P42-49
Alphanumeric LED Display.....	P50-52
Single Digit Alphanumeric LED Display.....	P50
Dual Digit Alphanumeric LED Display.....	P51
Triple Digit Alphanumeric LED Display.....	P51
Quadruple Digit Alphanumeric LED Display.....	P52
Graphic LED Display.....	P52
Light Bar.....	P53-54

LED Backlight

LED Backlight	P55-56
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Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.28" Single Digit LED Display

		Red															
KW1-281CVA	AlGaInP	Orange		632	624	Gray	White Diffused	2.00	2.40	20	30.00	60.00	C.C				
KW1-281AVA		Yellow Green											C.A				
KW1-281CAA	AlGaInP	Yellow Green		610	605								2.10	2.40	15.00	30.00	C.C
KW1-281AAA		Yellow Green															C.A
KW1-281CGA	AlGaInP	Yellow Green		575	572								2.00	2.40	10.00	20.00	C.C
KW1-281AGA		Yellow Green				C.A											

0.30" Single Digit LED Display

		Red															
KW1-301CVA	AlGaInP	Orange		632	624	Gray	White Diffused	2.00	2.40	20	25.00	50.00	C.C				
KW1-301AVA		Yellow Green											C.A				
KW1-301CAA	AlGaInP	Yellow Green		610	605								2.10	2.40	14.00	28.00	C.C
KW1-301AAA		Yellow Green															C.A
KW1-301CGA	AlGaInP	Yellow Green		575	572								2.00	2.40	8.00	16.00	C.C
KW1-301AGA		Yellow Green				C.A											

1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.30" Single Digit LED Display

KW1-302CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	25.00	50.00	C.C
KW1-302AVA												C.A
KW1-302CAA	AlGaInP	Orange	610	605			2.10	2.40		14.00	28.00	C.C
KW1-302AAA												C.A
KW1-302CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		8.00	16.00	C.C
KW1-302AGA												C.A

0.32" Single Digit LED Display

KW1-321CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	25.00	50.00	C.C
KW1-321AVA												C.A
KW1-321CAA	AlGaInP	Orange	610	605			2.10	2.40		14.00	28.00	C.C
KW1-321AAA												C.A
KW1-321CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		8.00	16.00	C.C
KW1-321AGA												C.A

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Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.36" Single Digit LED Display

KW1-361CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	20.00	40.00	C.C
KW1-361AVA			C.A									
KW1-361CAA	AlGaInP	Orange	610	605			2.10	2.40		11.00	22.00	C.C
KW1-361AAA			C.A									
KW1-361CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		5.00	10.00	C.C
KW1-361AGA			C.A									

0.39" Single Digit LED Display

KW1-391CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	30.00	60.00	C.C
KW1-391AVA			C.A									
KW1-391CAA	AlGaInP	Orange	610	605			2.10	2.40		15.00	30.00	C.C
KW1-391AAA			C.A									
KW1-391CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		12.00	24.00	C.C
KW1-391AGA			C.A									

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 3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.40" Single Digit LED Display

		KW1-401CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	25.00
KW1-401AVA	C.A											
KW1-401CAA	AlGaInP	Orange	610	605	Gray	White Diffused	2.10	2.40	20	14.00	28.00	C.C
KW1-401AAA												C.A
KW1-401CGA	AlGaInP	Yellow Green	575	572	Gray	White Diffused	2.00	2.40	10	8.00	16.00	C.C
KW1-401AGA												C.A
KW1-401CBA	InGaIn	Blue	468	470	Gray	White Diffused	2.90	3.10	10	10.00	20.00	C.C
KW1-401ABA												C.A
KW1-401CWA	InGaIn	White	x=0.27	y=0.28	Gray	White Diffused	2.90	3.10	10	23.00	45.00	C.C
KW1-401AWA												C.A

0.50" Single Digit LED Display

		KW1-501CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	40.00
KW1-501AVA	C.A											
KW1-501CAA	AlGaInP	Orange	610	605	Gray	White Diffused	2.10	2.40	20	15.00	30.00	C.C
KW1-501AAA												C.A
KW1-501CGA	AlGaInP	Yellow Green	575	572	Gray	White Diffused	2.00	2.40	10	8.00	16.00	C.C
KW1-501AGA												C.A
KW1-501CBA	InGaIn	Blue	468	470	Gray	White Diffused	2.90	3.10	10	12.50	25.00	C.C
KW1-501ABA												C.A
KW1-501CWA	InGaIn	White	x=0.30	y=0.31	Gray	White Diffused	2.90	3.10	10	65.00	130.00	C.C
KW1-501AWA												C.A

1. All dimensions are in millimeters (inches).
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 3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.52" Single Digit LED Display

KW1-521CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	40.00	80.00	C.C
KW1-521AVA												C.A
KW1-521CAA	AlGaInP	Orange	610	605			2.10	2.40		15.00	30.00	C.C
KW1-521AAA												C.A
KW1-521CGA	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	C.C	
KW1-521AGA											C.A	
KW1-521CBA	InGaIn	Blue	468	470			2.90	3.10	12.50	25.00	C.C	
KW1-521ABA											C.A	
KW1-521CWA	InGaIn	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	C.C			
KW1-521AWA									C.A			

0.56" Single Digit LED Display

KW1-561CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	C.C
KW1-561AVB												C.A
KW1-561CAB	AlGaInP	Orange	610	605			2.10	2.40		15.00	30.00	C.C
KW1-561AAB												C.A
KW1-561CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	C.C	
KW1-561AGB											C.A	
KW1-561CBB	InGaIn	Blue	468	470			2.90	3.10	12.50	25.00	C.C	
KW1-561ABB											C.A	
KW1-561CWB	InGaIn	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	C.C			
KW1-561AWB									C.A			

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.56" Single Digit LED Display

		KW1-562CVB		AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00
KW1-562AVB		610	605			2.10	2.40			15.00	30.00		C.A
KW1-562CAB		AlGaInP	Orange	575	572	Black	White Diffused	2.00	2.40	20	8.00	16.00	C.C
KW1-562AAB													C.A
KW1-562CGB		AlGaInP	Yellow Green	468	470	Black	White Diffused	2.90	3.10	10	12.50	25.00	C.C
KW1-562AGB													C.A
KW1-562CBB		InGaIn	Blue	x=0.30	y=0.31	Black	White Diffused	2.90	3.10	10	65.00	130.00	C.C
KW1-562ABB													C.A
KW1-562CWB		InGaIn	White	x=0.30	y=0.31	Black	White Diffused	2.90	3.10	10	65.00	130.00	C.C
KW1-562AWB													C.A

0.56" Single Digit LED Display

		KW1-563CVB		AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00
KW1-563AVB		610	605			2.10	2.40			15.00	30.00		C.A
KW1-563CAB		AlGaInP	Orange	575	572	Black	White Diffused	2.00	2.40	20	8.00	16.00	C.C
KW1-563AAB													C.A
KW1-563CGB		AlGaInP	Yellow Green	468	470	Black	White Diffused	2.90	3.10	10	12.50	25.00	C.C
KW1-563AGB													C.A
KW1-563CBB		InGaIn	Blue	x=0.30	y=0.31	Black	White Diffused	2.90	3.10	10	65.00	130.00	C.C
KW1-563ABB													C.A
KW1-563CWB		InGaIn	White	x=0.30	y=0.31	Black	White Diffused	2.90	3.10	10	65.00	130.00	C.C
KW1-563AWB													C.A

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3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	Ap (nm) / x	Ad (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.80" Single Digit LED Display

KW1-801CVB	AlGaInP		632	624	Black	White Diffused	2.00	2.40	20	45.00	90.00	C.C
KW1-801AVB		Red	610	605			2.10	2.40		17.00	34.00	C.A
KW1-801CAB	Orange	575	572	2.00			2.40	10.00		20.00	C.C	
KW1-801AAB	AlGaInP	Yellow Green	468	470			2.90	3.10	10	14.00	28.00	C.A
KW1-801CGB		Blue	x=0.30	y=0.31			2.90	3.10		68.00	135.00	C.C
KW1-801AGB	InGaN	White										C.A
KW1-801CBB		Blue										C.C
KW1-801ABB	InGaN	White										C.A
KW1-801CWB		Blue										C.C
KW1-801AWB										C.A		

0.80" Single Digit LED Display

KW1-802CVB	AlGaInP		632	624	Black	White Diffused	2.00	2.40	20	45.00	90.00	C.C
KW1-802AVB		Red	610	605			2.10	2.40		17.00	34.00	C.A
KW1-802CAB	Orange	575	572	2.00			2.40	10.00		20.00	C.C	
KW1-802AAB	AlGaInP	Yellow Green	468	470			2.90	3.10	10	14.00	28.00	C.A
KW1-802CGB		Blue	x=0.30	y=0.31			2.90	3.10		68.00	135.00	C.C
KW1-802AGB	InGaN	White										C.A
KW1-802CBB		Blue										C.C
KW1-802ABB	InGaN	White										C.A
KW1-802CWB		Blue										C.C
KW1-802AWB										C.A		

1. All dimensions are in millimeters (inches).
 2. Tolerance is ±0.25mm (.010") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

1.00" Single Digit LED Display

KW1-1002CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	48.00	96.00	C.C
KW1-1002AVB												C.A
KW1-1002CAB	AlGaInP	Orange	610	605			2.10	2.40		29.00	58.00	C.C
KW1-1002AAB												C.A
KW1-1002CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	13.00	26.00	C.C	
KW1-1002AGB											C.A	
KW1-1002CBB	InGaN	Blue	468	470			2.90	3.10	19.00	38.00	C.C	
KW1-1002ABB											C.A	
KW1-1002CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	75.00	145.00	C.C			
KW1-1002AWB									C.A			

1.20" Single Digit LED Display

KW1-1201CVB	AlGaInP	Red	632	624	Black	White Diffused	4.00	4.60	20	40.00	80.00	C.C
KW1-1201AVB												C.A
KW1-1201CAB	AlGaInP	Orange	610	605			4.00	4.60		24.00	48.00	C.C
KW1-1201AAB												C.A
KW1-1201CGB	AlGaInP	Yellow Green	575	572			4.00	4.60	10.00	20.00	C.C	
KW1-1201AGB											C.A	
KW1-1201CBB	InGaN	Blue	468	470			5.80	6.20	14.00	28.00	C.C	
KW1-1201ABB											C.A	
KW1-1201CWB	InGaN	White	x=0.30	y=0.31	5.80	6.20	70.00	135.00	C.C			
KW1-1201AWB									C.A			

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 3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

1.50" Single Digit LED Display

KW1-1501CVB	AlGaInP	Red	632	624	Black	White Diffused	4.00	4.60	20	40.00	80.00	C.C
KW1-1501AVB												C.A
KW1-1501CAB	AlGaInP	Orange	610	605			4.00	4.60		24.00	48.00	C.C
KW1-1501AAB												C.A
KW1-1501CGB	AlGaInP	Yellow Green	575	572			4.00	4.60	10.00	20.00	C.C	
KW1-1501AGB											C.A	
KW1-1501CBB	InGaIn	Blue	468	470			5.80	6.20	14.00	28.00	C.C	
KW1-1501ABB											C.A	
KW1-1501CWB	InGaIn	White	x=0.30	y=0.31	5.80	6.20	70.00	135.00	C.C			
KW1-1501AWB									C.A			

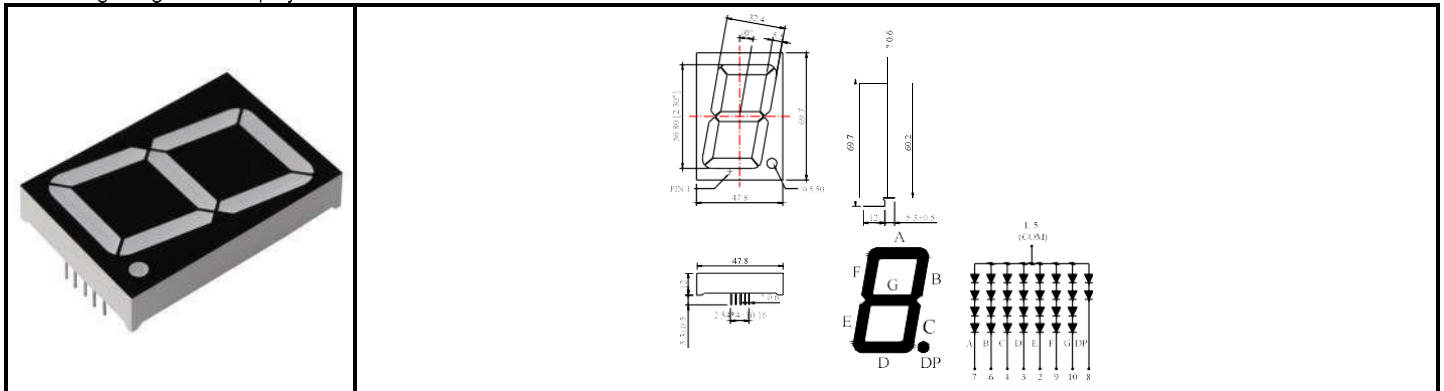
1.80" Single Digit LED Display

KW1-1808CVB	AlGaInP	Red	632	624	Black	White Diffused	4.00	4.60	20	45.00	90.00	C.C
KW1-1808AVB												C.A
KW1-1808CAB	AlGaInP	Orange	610	605			4.00	4.60		26.00	52.00	C.C
KW1-1808AAB												C.A
KW1-1808CGB	AlGaInP	Yellow Green	575	572			4.00	4.60	12.00	24.00	C.C	
KW1-1808AGB											C.A	
KW1-1808CBB	InGaIn	Blue	468	470			5.80	6.20	18.00	35.00	C.C	
KW1-1808ABB											C.A	
KW1-1808CWB	InGaIn	White	x=0.30	y=0.31	5.80	6.20	70.00	140.00	C.C			
KW1-1808AWB									C.A			

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 2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
 3. Specifications are subject to change without notice.

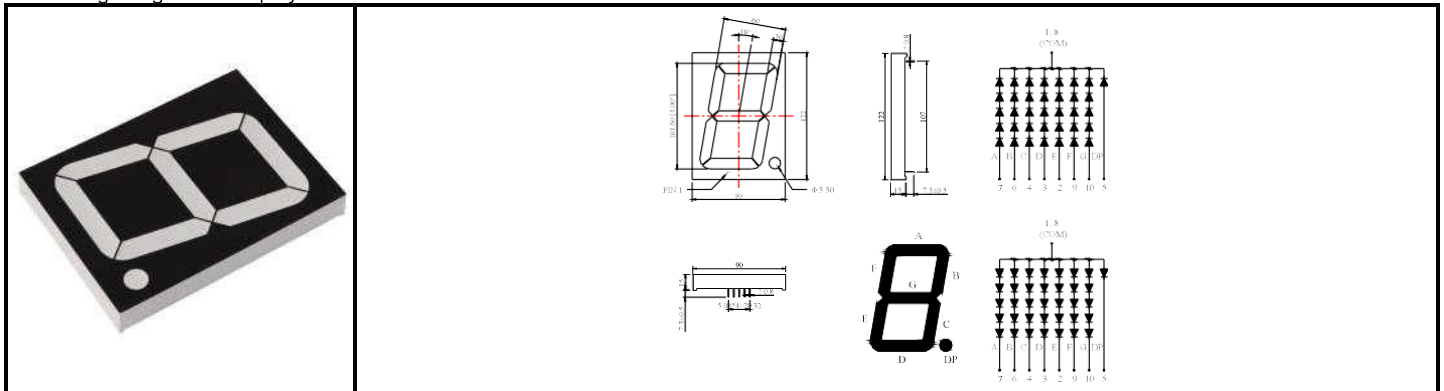
Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

2.30" Single Digit LED Display



KW1-2301CVB	AlGaInP	Red	632	624	Black	White Diffused	7.60	9.20	20	48.00	96.00	C.C
KW1-2301AVB												C.A
KW1-2301CAB	AlGaInP	Orange	610	605			7.60	9.20		13.00	26.00	C.C
KW1-2301AAB												C.A
KW1-2301CGB	AlGaInP	Yellow Green	575	572			11.20	12.00	19.00	38.00	C.C	
KW1-2301AGB											C.A	
KW1-2301CBB	InGaIn	Blue	468	470			11.20	12.00	75.00	145.00	C.C	
KW1-2301ABB											C.A	
KW1-2301CWB	InGaIn	White	x=0.30	y=0.31	7.60	9.20	13.00	26.00	C.C			
KW1-2301AWB									C.A			

4.00" Single Digit LED Display



KW1-4001CVB	AlGaInP	Red	632	624	Black	White Diffused	9.00	11.50	20	50.00	100.00	C.C
KW1-4001AVB												C.A
KW1-4001CAB	AlGaInP	Orange	610	605			9.00	11.50		14.00	28.00	C.C
KW1-4001AAB												C.A
KW1-4001CGB	AlGaInP	Yellow Green	575	572			14.00	15.00	20.00	40.00	C.C	
KW1-4001AGB											C.A	
KW1-4001CBB	InGaIn	Blue	468	470			14.00	15.00	75.00	150.00	C.C	
KW1-4001ABB											C.A	
KW1-4001CWB	InGaIn	White	x=0.30	y=0.31	9.00	11.50	14.00	28.00	C.C			
KW1-4001AWB									C.A			

1. All dimensions are in millimeters (inches).
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3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.28" Dual Digit LED Display

KW2-281CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	28.00	56.00	C.C
KW2-281AVA			C.A									
KW2-281CAA	AlGaInP	Orange	610	605			2.10	2.40		14.00	28.00	C.C
KW2-281AAA			C.A									
KW2-281CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		9.00	18.00	C.C
KW2-281AGA			C.A									

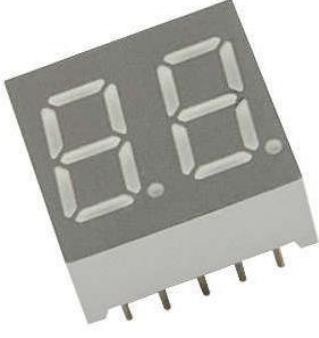
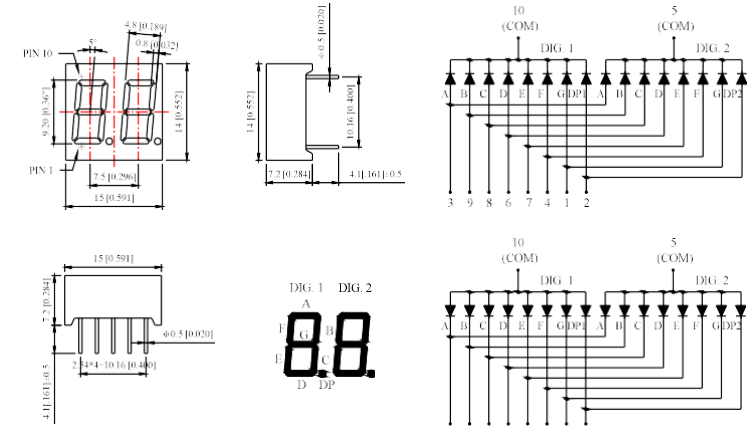
0.30" Dual Digit LED Display

KW2-301CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	25.00	50.00	C.C
KW2-301AVA			C.A									
KW2-301CAA	AlGaInP	Orange	610	605			2.10	2.40		14.00	28.00	C.C
KW2-301AAA			C.A									
KW2-301CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		8.00	16.00	C.C
KW2-301AGA			C.A									


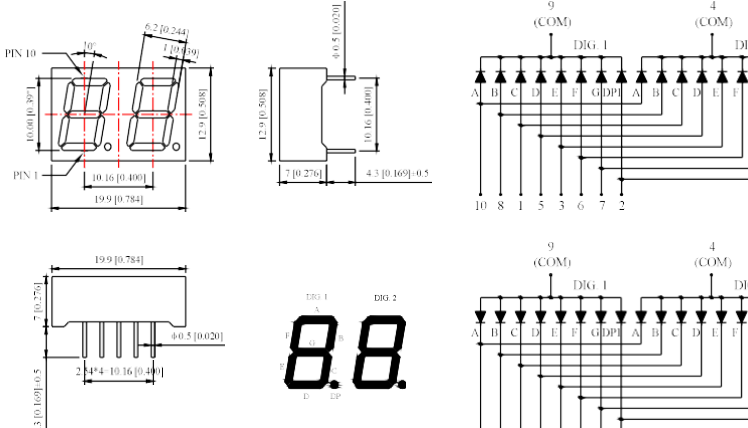
1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.36" Dual Digit LED Display

												
		KW2-361CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	24.00
KW2-361AVA	C.A											
KW2-361CAA	AlGaInP	Orange	610	605	Gray	White Diffused	2.10	2.40	20	14.00	28.00	C.C
KW2-361AAA			C.A									
KW2-361CGA	AlGaInP	Yellow Green	575	572	Gray	White Diffused	2.00	2.40	20	7.00	14.00	C.C
KW2-361AGA			C.A									

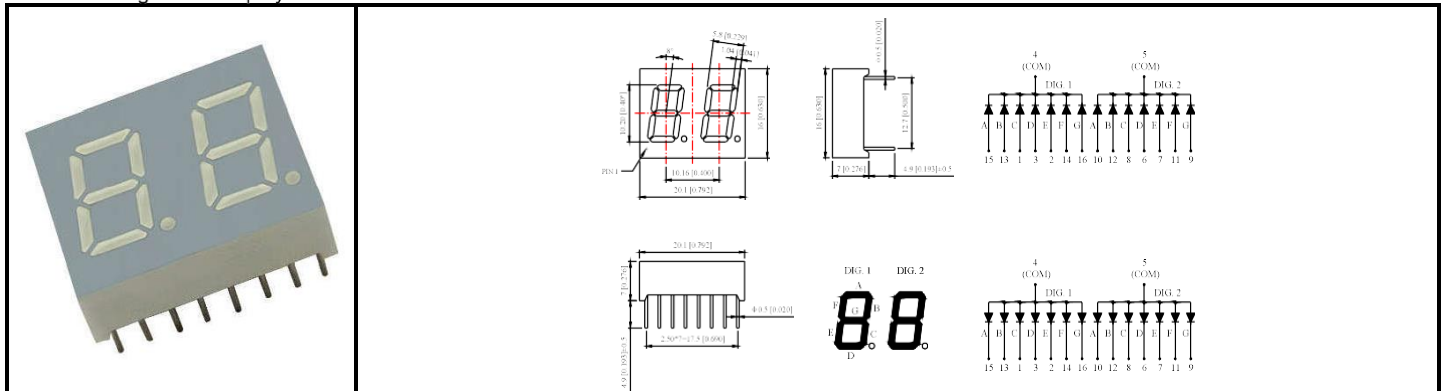
0.39" Dual Digit LED Display

												
		KW2-391CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	24.00
KW2-391AVA	C.A											
KW2-391CAA	AlGaInP	Orange	610	605	Gray	White Diffused	2.10	2.40	20	14.00	28.00	C.C
KW2-391AAA			C.A									
KW2-391CGA	AlGaInP	Yellow Green	575	572	Gray	White Diffused	2.00	2.40	20	7.00	14.00	C.C
KW2-391AGA			C.A									

1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
 3. Specifications are subject to change without notice.

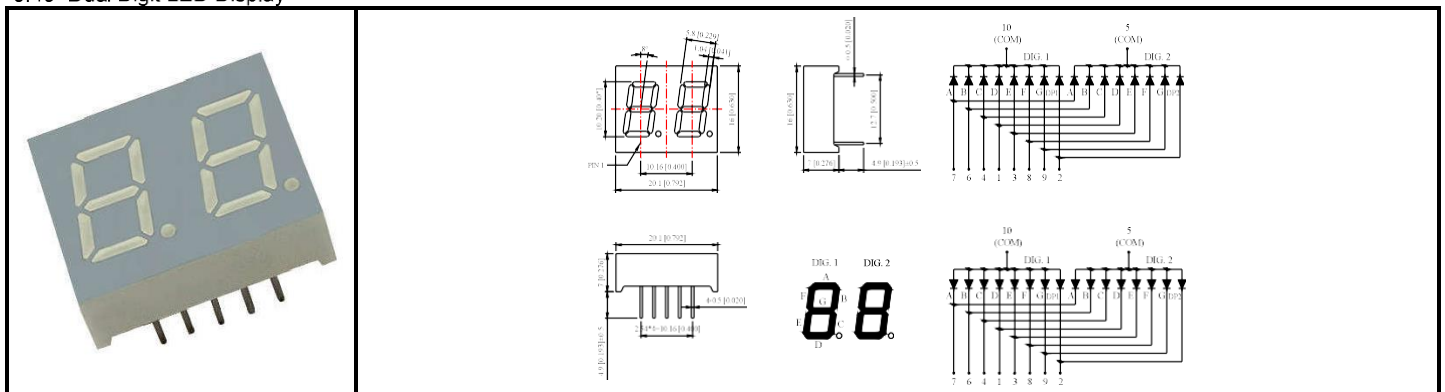
Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.40" Dual Digit LED Display



KW2-401CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	30.00	60.00	C.C
KW2-401AVA												
KW2-401CAA	AlGaInP	Orange	610	605	Gray	White Diffused	2.10	2.40	20	15.00	30.00	C.C
KW2-401AAA												
KW2-401CGA	AlGaInP	Yellow Green	575	572	Gray	White Diffused	2.00	2.40	20	6.00	12.00	C.C
KW2-401AGA												
KW2-401CBA	InGaIn	Blue	468	470	Gray	White Diffused	2.90	3.10	10	10.00	20.00	C.C
KW2-401ABA												
KW2-401CWA	InGaIn	White	x=0.27	y=0.28	Gray	White Diffused	2.90	3.10	10	23.00	45.00	C.C
KW2-401AWA												

0.40" Dual Digit LED Display

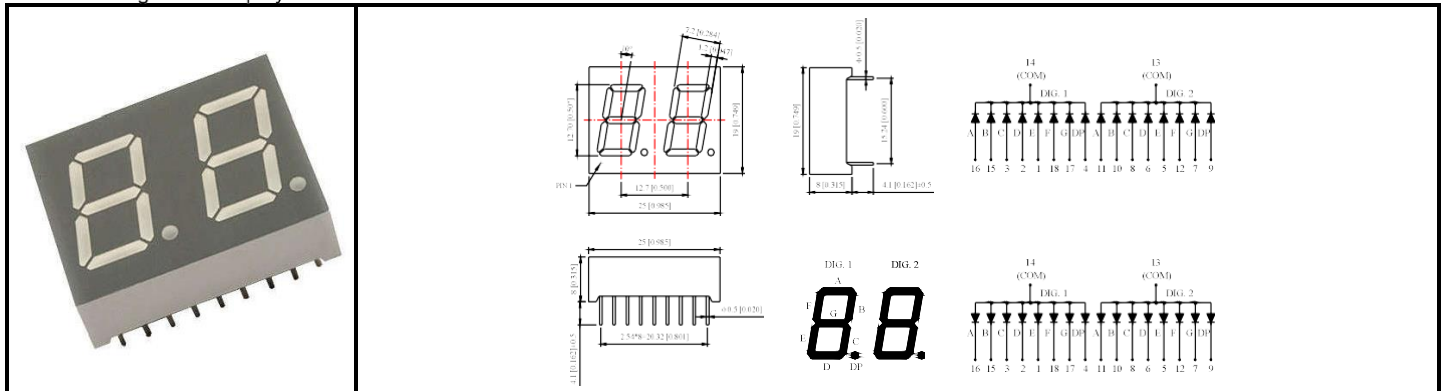


KW2-402CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	30.00	60.00	C.C
KW2-402AVA												
KW2-402CAA	AlGaInP	Orange	610	605	Gray	White Diffused	2.10	2.40	20	15.00	30.00	C.C
KW2-402AAA												
KW2-402CGA	AlGaInP	Yellow Green	575	572	Gray	White Diffused	2.00	2.40	20	6.00	12.00	C.C
KW2-402AGA												
KW2-402CBA	InGaIn	Blue	468	470	Gray	White Diffused	2.90	3.10	10	10.00	20.00	C.C
KW2-402ABA												
KW2-402CWA	InGaIn	White	x=0.27	y=0.28	Gray	White Diffused	2.90	3.10	10	23.00	45.00	C.C
KW2-402AWA												

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

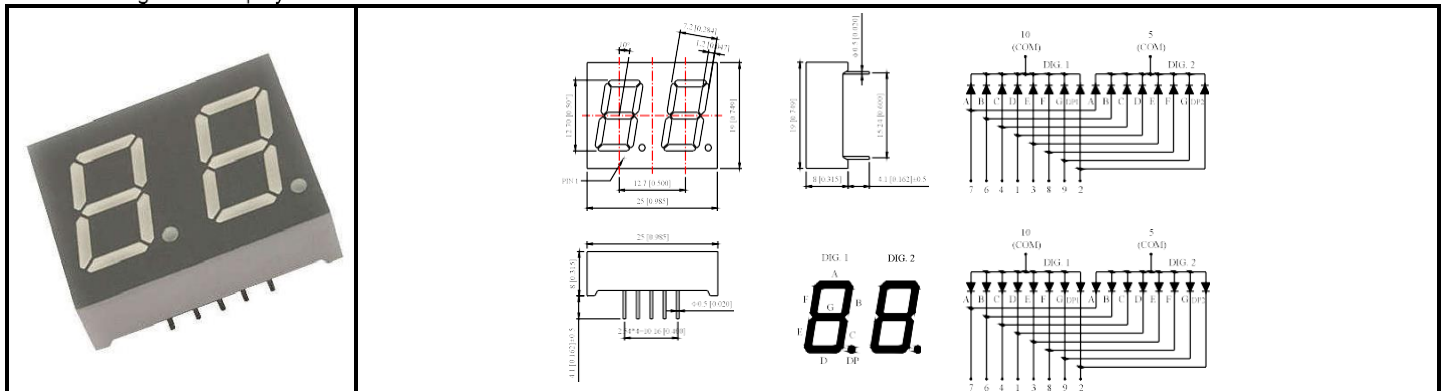
Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.50" Dual Digit LED Display



KW2-501CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	40.00	80.00	C.C
KW2-501AVA												C.A
KW2-501CAA	AlGaInP	Orange	610	605			2.10	2.40		16.00	32.00	C.C
KW2-501AAA												C.A
KW2-501CGA	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	C.C	
KW2-501AGA											C.A	
KW2-501CBA	InGaIn	Blue	468	470			2.90	3.10	13.00	25.00	C.C	
KW2-501ABA											C.A	
KW2-501CWA	InGaIn	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	C.C			
KW2-501AWA									C.A			

0.50" Dual Digit LED Display

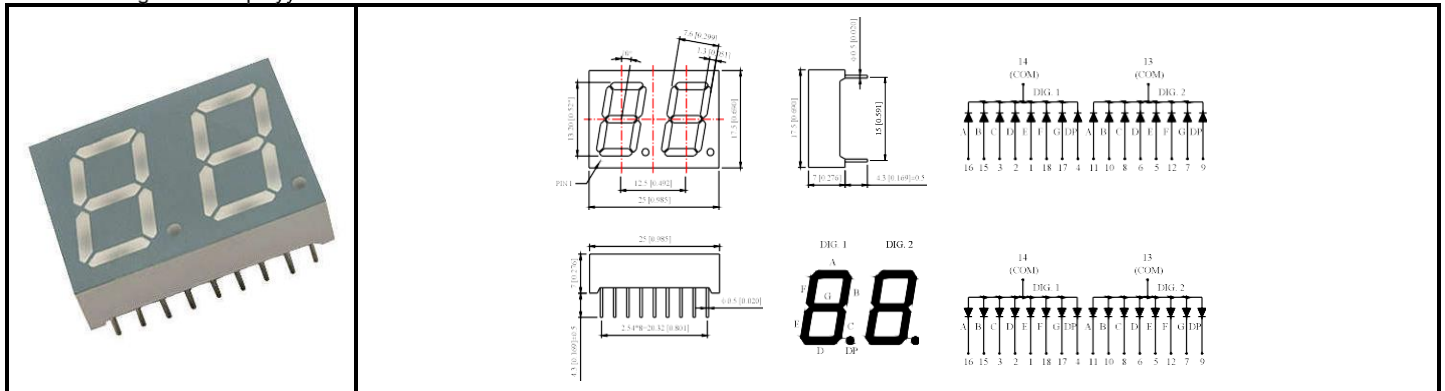


KW2-502CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	40.00	80.00	C.C
KW2-502AVA												C.A
KW2-502CAA	AlGaInP	Orange	610	605			2.10	2.40		16.00	32.00	C.C
KW2-502AAA												C.A
KW2-502CGA	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	C.C	
KW2-502AGA											C.A	
KW2-502CBA	InGaIn	Blue	468	470			2.90	3.10	13.00	25.00	C.C	
KW2-502ABA											C.A	
KW2-502CWA	InGaIn	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	C.C			
KW2-502AWA									C.A			

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

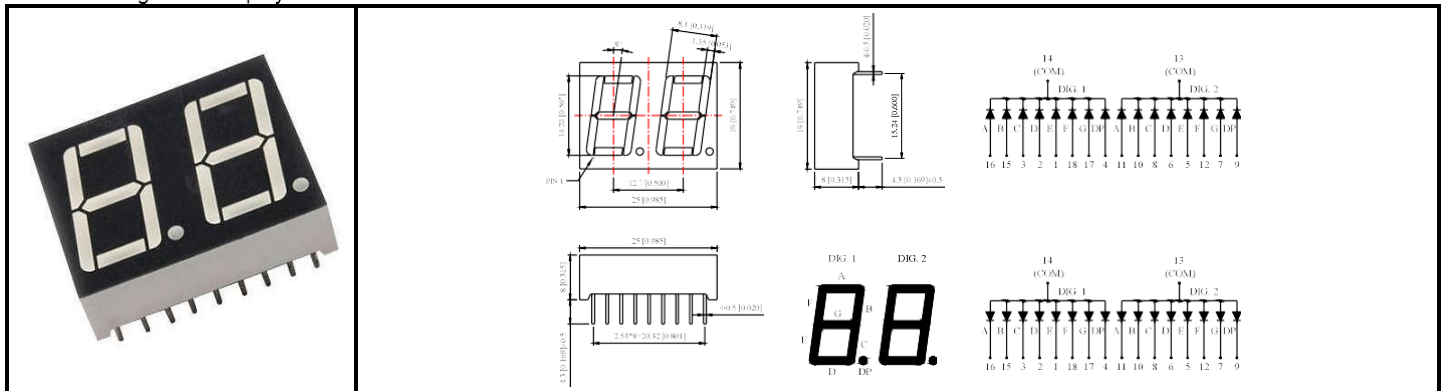
Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.52" Dual Digit LED Display



KW2-521CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	40.00	80.00	C.C
KW2-521AVA												C.A
KW2-521CAA	AlGaInP	Orange	610	605			2.10	2.40		16.00	32.00	C.C
KW2-521AAA												C.A
KW2-521CGA	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	C.C	
KW2-521AGA											C.A	
KW2-521CBA	InGaIn	Blue	468	470			2.90	3.10	13.00	25.00	C.C	
KW2-521ABA											C.A	
KW2-521CWA	InGaIn	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	C.C			
KW2-521AWA									C.A			

0.56" Dual Digit LED Display

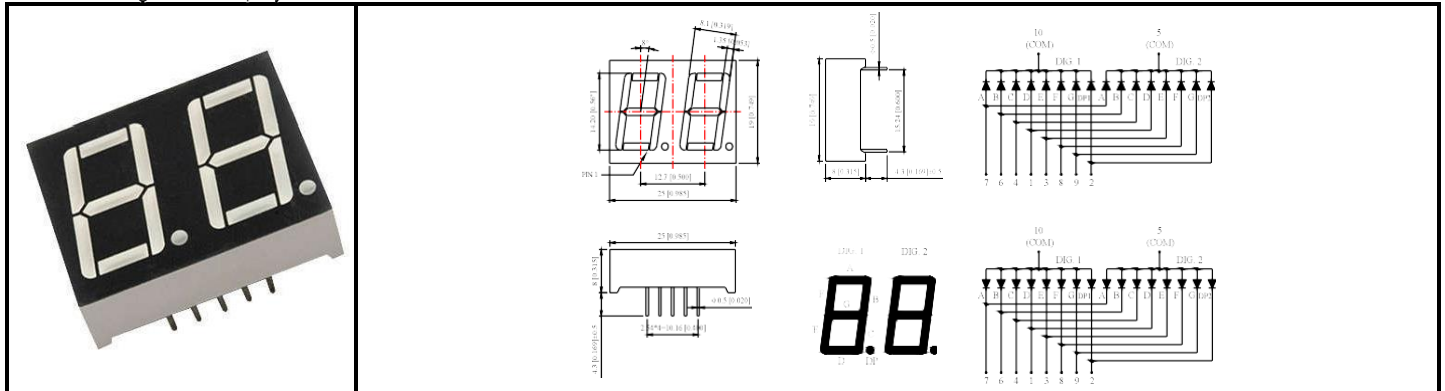


KW2-561CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	C.C
KW2-561AVB												C.A
KW2-561CAB	AlGaInP	Orange	610	605			2.10	2.40		16.00	32.00	C.C
KW2-561AAB												C.A
KW2-561CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	C.C	
KW2-561AGB											C.A	
KW2-561CBB	InGaIn	Blue	468	470			2.90	3.10	13.00	25.00	C.C	
KW2-561ABB											C.A	
KW2-561CWB	InGaIn	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	C.C			
KW2-561AWB									C.A			

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
3. Specifications are subject to change without notice.

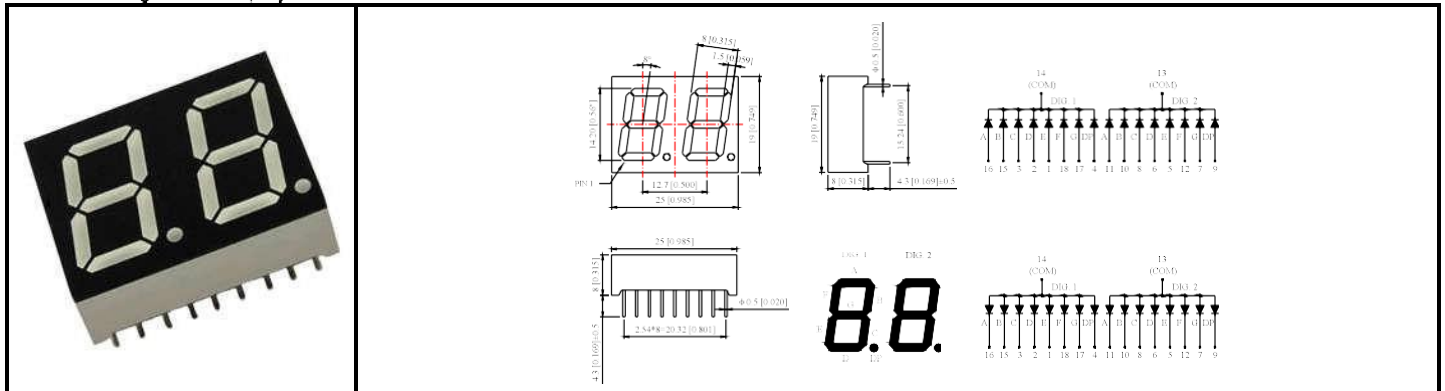
Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.56" Dual Digit LED Display



KW2-562CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	C.C
KW2-562AVB												C.A
KW2-562CAB	AlGaInP	Orange	610	605			2.10	2.40		16.00	32.00	C.C
KW2-562AAB												C.A
KW2-562CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	C.C	
KW2-562AGB											C.A	
KW2-562CBB	InGaIn	Blue	468	470			2.90	3.10	13.00	25.00	C.C	
KW2-562ABB											C.A	
KW2-562CWB	InGaIn	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	C.C			
KW2-562AWB									C.A			

0.56" Dual Digit LED Display



KW2-56GCVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	C.C
KW2-56GAVB												C.A
KW2-56GCAB	AlGaInP	Orange	610	605			2.10	2.40		16.00	32.00	C.C
KW2-56GAAB												C.A
KW2-56GCGB	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	C.C	
KW2-56GAGB											C.A	
KW2-56GCBB	InGaIn	Blue	468	470			2.90	3.10	12.50	25.00	C.C	
KW2-56GABB											C.A	
KW2-56GCWB	InGaIn	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	C.C			
KW2-56GAWB									C.A			

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.80" Dual Digit LED Display

KW2-801CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	45.00	90.00	C.C	
KW2-801AVB												C.A	
KW2-801CAB	AlGaInP	Orange	610	605			2.10	2.40		10	17.00	34.00	C.C
KW2-801AAB													C.A
KW2-801CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	10		10.00	20.00	C.C
KW2-801AGB													C.A
KW2-801CBB	InGaIn	Blue	468	470			2.90	3.10		10	14.00	28.00	C.C
KW2-801ABB													C.A
KW2-801CWB	InGaIn	White	x=0.30	y=0.31	2.90	3.10	10	70.00	135.00		C.C		
KW2-801AWB											C.A		

0.80" Dual Digit LED Display

KW2-802CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	45.00	90.00	C.C	
KW2-802AVB												C.A	
KW2-802CAB	AlGaInP	Orange	610	605			2.10	2.40		10	17.00	34.00	C.C
KW2-802AAB													C.A
KW2-802CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	10		10.00	20.00	C.C
KW2-802AGB													C.A
KW2-802CBB	InGaIn	Blue	468	470			2.90	3.10		10	14.00	28.00	C.C
KW2-802ABB													C.A
KW2-802CWB	InGaIn	White	x=0.30	y=0.31	2.90	3.10	10	70.00	135.00		C.C		
KW2-802AWB											C.A		

1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.56" +1.8. Figure Digit LED Display

KWD-562CVA	AlGaInP	Hyper Red	632	624	Gray	White Diffused	2.00	2.40	20	40.00	80.00	C.C
KWD-562AVA			C.A									
KWD-562CGA	AlGaInP	Super Yellow Green	575	572			2.00	2.40		8.00	16.00	C.C
KWD-562AGA			C.A									

0.50" Dual Half Digit LED Display

KWE-501CVB	AlGaInP	Hyper Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	C.C
KWE-501AVB			C.A									
KWE-501CGB	AlGaInP	Super Yellow Green	575	572			2.00	2.40		8.00	16.00	C.C
KWE-501AGB			C.A									

1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.28" Triple Digit LED Display

KW3-281CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	35.00	70.00	C.C
KW3-281AVA												C.A
KW3-281CAA	AlGaInP	Orange	610	605	Gray	White Diffused	2.10	2.40	20	15.00	30.00	C.C
KW3-281AAA												C.A
KW3-281CGA	AlGaInP	Yellow Green	575	572	Gray	White Diffused	2.00	2.40	20	6.00	12.00	C.C
KW3-281AGA												C.A

0.31" Triple Digit LED Display

KW3-304CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	37.00	74.00	C.C
KW3-304AVA												C.A
KW3-304CAA	AlGaInP	Orange	610	605	Gray	White Diffused	2.10	2.40	20	17.00	34.00	C.C
KW3-304AAA												C.A
KW3-304CGA	AlGaInP	Yellow Green	575	572	Gray	White Diffused	2.00	2.40	20	7.00	14.00	C.C
KW3-304AGA												C.A

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.36" Triple Digit LED Display

KW3-361CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	36.00	72.00	C.C
KW3-361AVA			C.A									
KW3-361CAA	AlGaInP	Orange	610	605			2.10	2.40		16.00	32.00	C.C
KW3-361AAA			C.A									
KW3-361CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		6.50	13.00	C.C
KW3-361AGA			C.A									

0.39" Triple Digit LED Display

KW3-392CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	35.00	70.00	C.C
KW3-392AVA			C.A									
KW3-392CAA	AlGaInP	Orange	610	605			2.10	2.40		17.00	34.00	C.C
KW3-392AAA			C.A									
KW3-392CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		7.00	14.00	C.C
KW3-392AGA			C.A									

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.40" Triple Digit LED Display

KW3-401CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	35.00	70.00	C.C	
KW3-401AVA												C.A	
KW3-401CAA	AlGaInP	Orange	610	605			2.10	2.40		10	8.00	16.00	C.C
KW3-401AAA													C.A
KW3-401CGA	AlGaInP	Yellow Green	575	572			2.00	2.40	10	10.00	20.00	C.C	
KW3-401AGA												C.A	
KW3-401CBA	InGaIn	Blue	468	470			2.90	3.10	10	23.00	46.00	C.C	
KW3-401ABA												C.A	
KW3-401CWA	InGaIn	White	x=0.27	y=0.28	2.90	3.10	10	65.00	130.00	C.C			
KW3-401AWA										C.A			

0.52" Triple Digit LED Display

KW3-521CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	40.00	80.00	C.C	
KW3-521AVA												C.A	
KW3-521CAA	AlGaInP	Orange	610	605			2.10	2.40		10	8.00	16.00	C.C
KW3-521AAA													C.A
KW3-521CGA	AlGaInP	Yellow Green	575	572			2.00	2.40	10	13.00	25.00	C.C	
KW3-521AGA												C.A	
KW3-521CBA	InGaIn	Blue	468	470			2.90	3.10	10	65.00	130.00	C.C	
KW3-521ABA												C.A	
KW3-521CWA	InGaIn	White	x=0.30	y=0.31	2.90	3.10	10	65.00	130.00	C.C			
KW3-521AWA										C.A			

1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.56" Triple Digit LED Display

KW3-561CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	C.C	
KW3-561AVB			C.A										
KW3-561CAB	AlGaInP	Orange	610	605			2.10	2.40		10	15.00	30.00	C.C
KW3-561AAB			C.A										
KW3-561CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00		16.00	C.C	
KW3-561AGB			C.A										
KW3-561CBB	InGaN	Blue	468	470			2.90	3.10	13.00	25.00	C.C		
KW3-561ABB			C.A										
KW3-561CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	C.C				
KW3-561AWB			C.A										

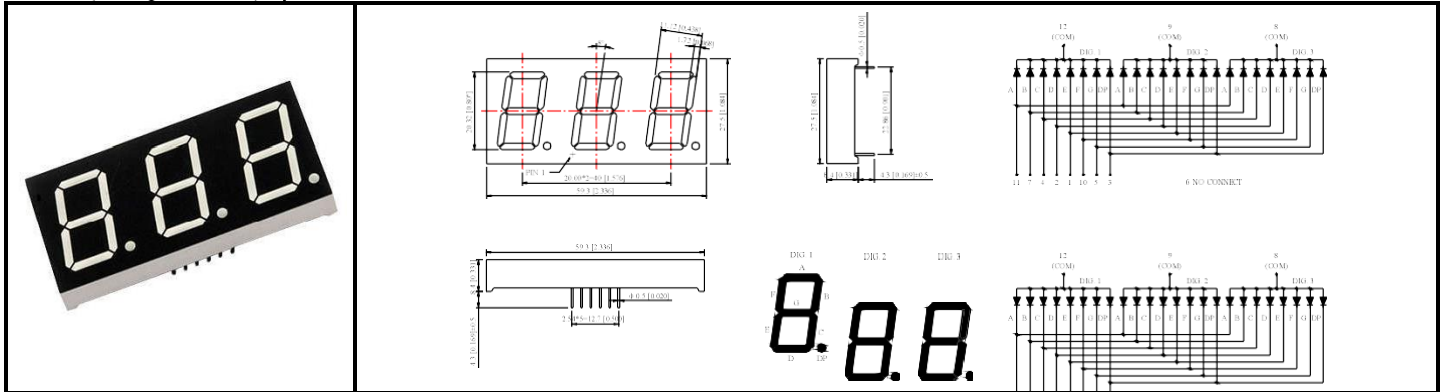
0.56" Triple Digit LED Display

KW3-567CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	C.C	
KW3-567AVB			C.A										
KW3-567CAB	AlGaInP	Orange	610	605			2.10	2.40		10	15.00	30.00	C.C
KW3-567AAB			C.A										
KW3-567CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00		16.00	C.C	
KW3-567AGB			C.A										
KW3-567CBB	InGaN	Blue	468	470			2.90	3.10	13.00	25.00	C.C		
KW3-567ABB			C.A										
KW3-567CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	C.C				
KW3-567AWB			C.A										

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

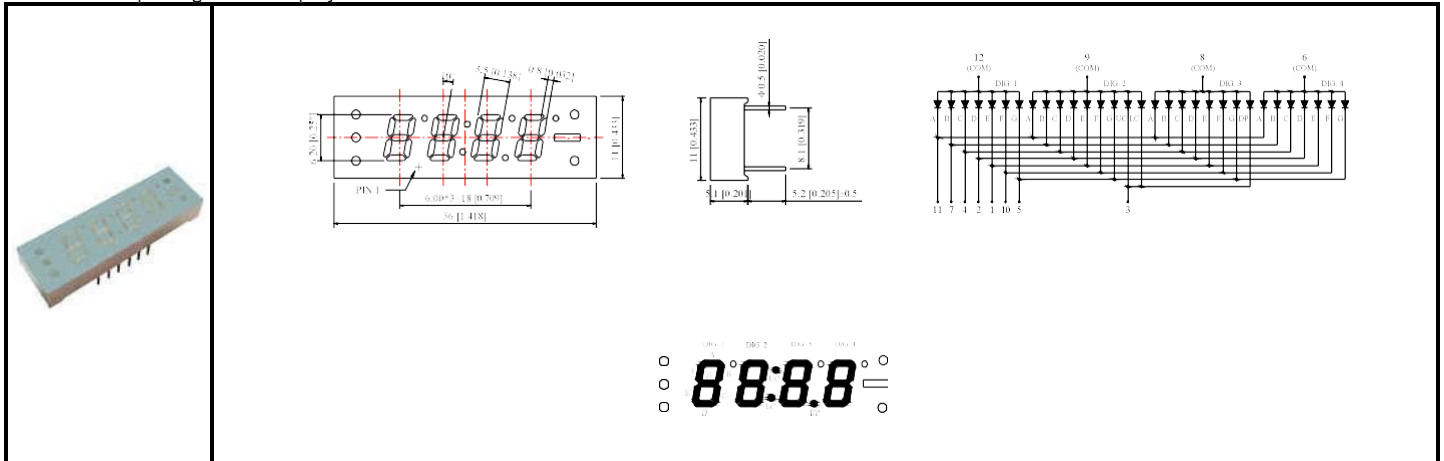
Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.80" Triple Digit LED Display



KW3-801CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	45.00	90.00	C.C
KW3-801AVB												C.A
KW3-801CAB	AlGaInP	Orange	610	605			2.10	2.40	10	17.00	34.00	C.C
KW3-801AAB												C.A
KW3-801CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	10	10.00	20.00	C.C
KW3-801AGB												C.A
KW3-801CBB	InGaN	Blue	468	470			2.90	3.10	10	14.00	28.00	C.C
KW3-801ABB												C.A
KW3-801CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	10	70.00	135.00	C.C		
KW3-801AWB										C.A		

0.25" Quadruple Digit LED Display



KW4-252CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	30.00	60.00	C.C
KW4-252AVA												C.A
KW4-252CAA	AlGaInP	Orange	610	605			2.10	2.40	10	15.00	30.00	C.C
KW4-252AAA												C.A
KW4-252CGA	AlGaInP	Yellow Green	575	572	2.00	2.40	10	10.00	20.00	C.C		
KW4-252AGA										C.A		

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.28" Quadruple Digit LED Display

KW4-281CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	25.00	50.00	C.C
KW4-281AVA												C.A
KW4-281CAA	AlGaInP	Orange	610	605			2.10	2.40		14.00	28.00	C.C
KW4-281AAA												C.A
KW4-281CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		8.00	16.00	C.C
KW4-281AGA												C.A

0.30" Quadruple Digit LED Display

KW4-306CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	24.00	48.00	C.C
KW4-306AVA												C.A
KW4-306CAA	AlGaInP	Orange	610	605			2.10	2.40		13.00	26.00	C.C
KW4-306AAA												C.A
KW4-306CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		7.00	14.00	C.C
KW4-306AGA												C.A

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.30" Quadruple Digit LED Display

Technical drawing of the 0.30" Quadruple Digit LED Display. It includes a perspective view of the display, a top view with dimensions (e.g., 30.5 [1.202] mm total length, 7.62 [0.300] mm digit width), a side view showing a height of 13 [0.512] mm, and a detailed pinout diagram for 12 pins (pins 1-4 are COM, 5-8 are DIG 1-4, 9-12 are COM).

KW4-30GCVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	24.00	48.00	C.C
KW4-30GAVA												C.A
KW4-30GCAA	AlGaInP	Orange	610	605			2.10	2.40		13.00	26.00	C.C
KW4-30GAAA												C.A
KW4-30GCGA	AlGaInP	Yellow Green	575	572			2.00	2.40		7.00	14.00	C.C
KW4-30GAGA												C.A

0.31" Quadruple Digit LED Display

Technical drawing of the 0.31" Quadruple Digit LED Display. It includes a perspective view, a top view with dimensions (e.g., 28.1 [1.103] mm total length, 7.60 [0.300] mm digit width), a side view showing a height of 11 [0.433] mm, and a detailed pinout diagram for 12 pins (pins 1-4 are COM, 5-8 are DIG 1-4, 9-12 are COM).

KW4-311CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	30.00	60.00	C.C
KW4-311AVA												C.A
KW4-311CAA	AlGaInP	Orange	610	605			2.10	2.40		14.00	28.00	C.C
KW4-311AAA												C.A
KW4-311CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		8.00	16.00	C.C
KW4-311AGA												C.A

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.36" Quadruple Digit LED Display

KW4-361CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	33.00	66.00	C.C
KW4-361AVA			C.A									
KW4-361CAA	AlGaInP	Orange	610	605			2.10	2.40		14.00	28.00	C.C
KW4-361AAA			C.A									
KW4-361CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		8.00	16.00	C.C
KW4-361AGA			C.A									

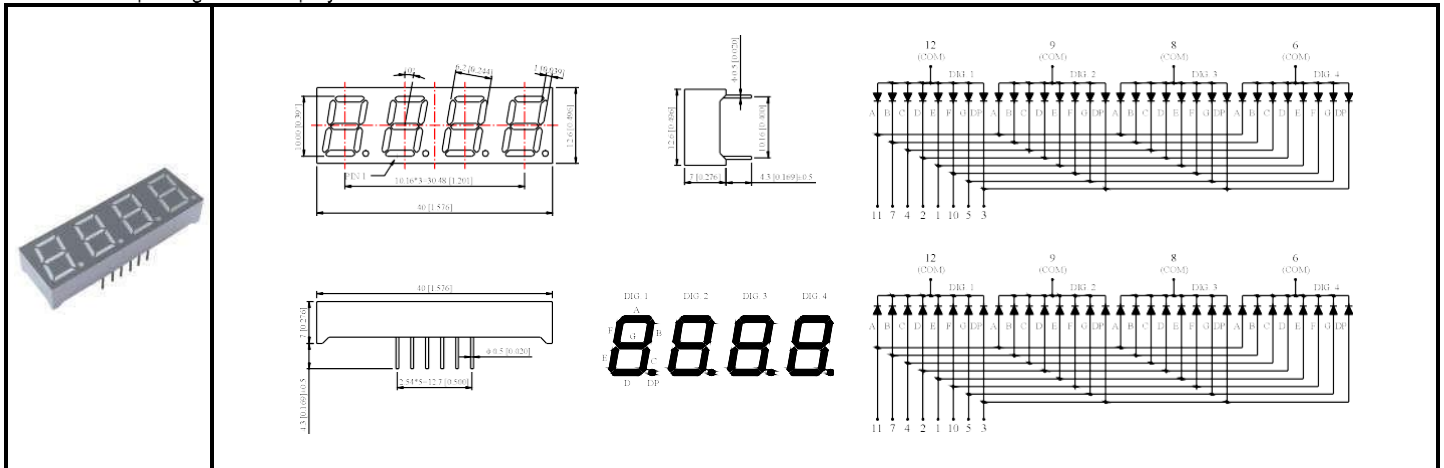
0.39" Quadruple Digit LED Display

KW4-391CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	30.00	60.00	C.C
KW4-391AVA			C.A									
KW4-391CAA	AlGaInP	Orange	610	605			2.10	2.40		15.00	30.00	C.C
KW4-391AAA			C.A									
KW4-391CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		9.00	18.00	C.C
KW4-391AGA			C.A									

1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
 3. Specifications are subject to change without notice.

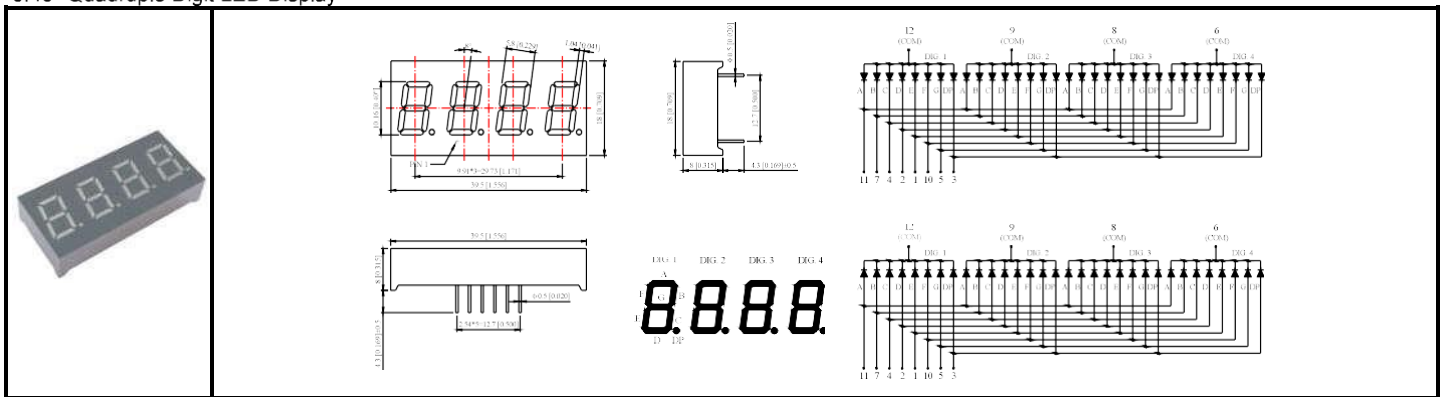
Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.39" Quadruple Digit LED Display



KW4-39FCVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	28.00	56.00	C.C
KW4-39FAVA												C.A
KW4-39FCAA	AlGaInP	Orange	610	605			2.10	2.40		14.00	28.00	C.C
KW4-39FAAA												C.A
KW4-39FCGA	AlGaInP	Yellow Green	575	572			2.00	2.40		9.00	18.00	C.C
KW4-39FAGA												C.A

0.40" Quadruple Digit LED Display

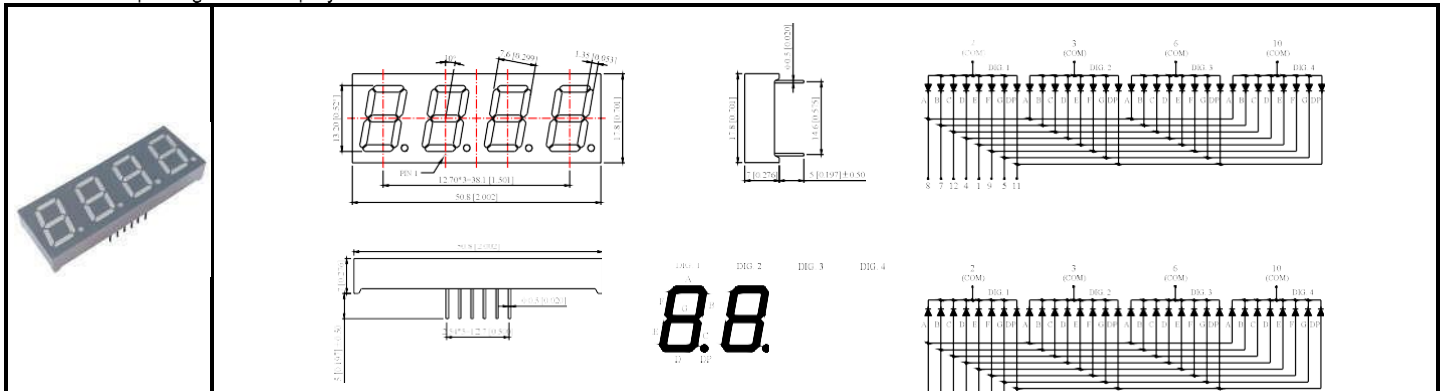


KW4-401CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	30.00	60.00	C.C
KW4-401AVA												C.A
KW4-401CAA	AlGaInP	Orange	610	605			2.10	2.40		15.00	30.00	C.C
KW4-401AAA												C.A
KW4-401CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		9.00	18.00	C.C
KW4-401AGA												C.A
KW4-401CBA	InGaIn	Blue	468	470	2.90	3.10	10.00	20.00	C.C			
KW4-401ABA									C.A			
KW4-401CWA	InGaIn	White	x=0.27	y=0.28	2.90	3.10	25.00	50.00	C.C			
KW4-401AWA									C.A			

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

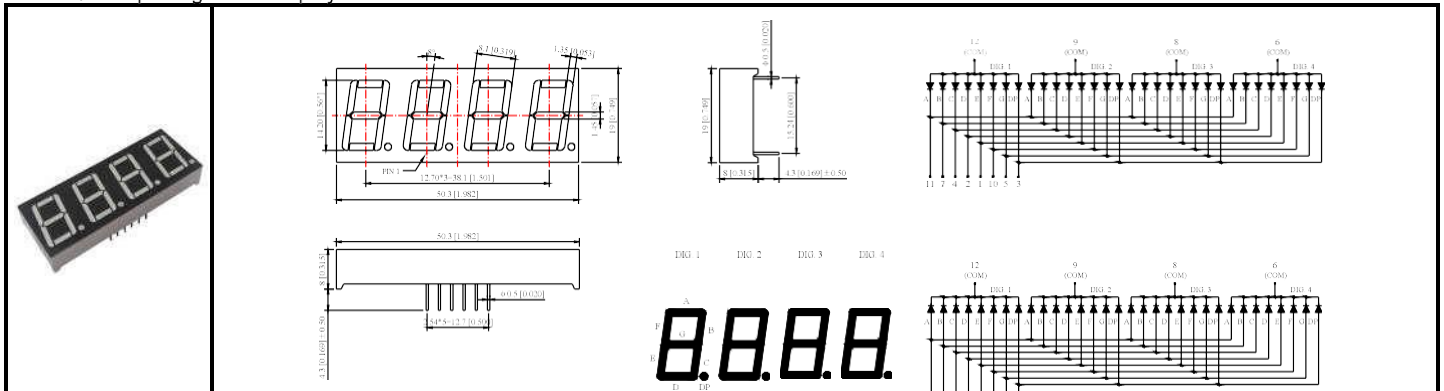
Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.52" Quadruple Digit LED Display



KW4-521CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	40.00	80.00	C.C
KW4-521AVA												C.A
KW4-521CAA	AlGaInP	Orange	610	605			2.10	2.40		15.00	30.00	C.C
KW4-521AAA												C.A
KW4-521CGA	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	C.C	
KW4-521AGA											C.A	
KW4-521CBA	InGaN	Blue	468	470			2.90	3.10	13.00	25.00	C.C	
KW4-521ABA											C.A	
KW4-521CWA	InGaN	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	C.C			
KW4-521AWA									C.A			

0.56" Quadruple Digit LED Display


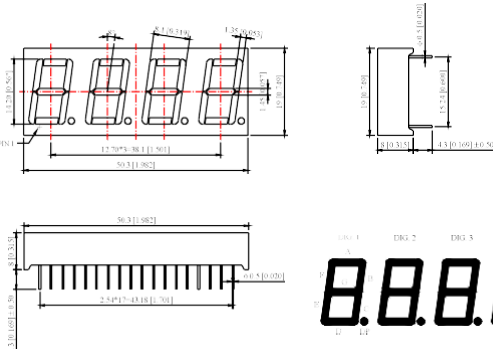
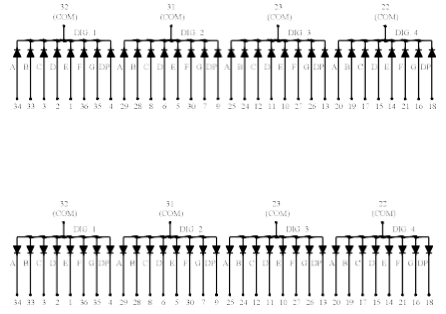



KW4-561CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	C.C
KW4-561AVB												C.A
KW4-561CAB	AlGaInP	Orange	610	605			2.10	2.40		15.00	30.00	C.C
KW4-561AAB												C.A
KW4-561CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	C.C	
KW4-561AGB											C.A	
KW4-561CBB	InGaN	Blue	468	470			2.90	3.10	13.00	25.00	C.C	
KW4-561ABB											C.A	
KW4-561CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	C.C			
KW4-561AWB									C.A			

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- Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
- Specifications are subject to change without notice.


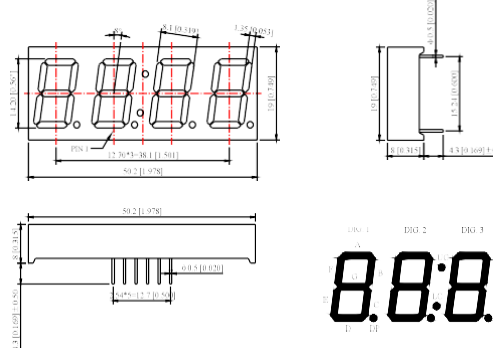
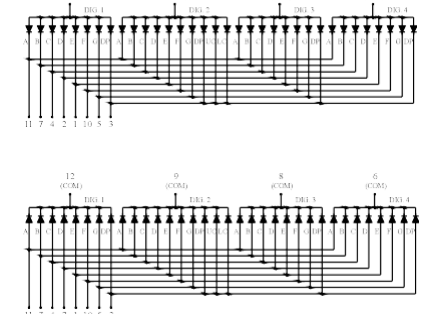

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.56" Quadruple Digit LED Display

KW4-562CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	C.C		
KW4-562AVB												C.A		
KW4-562CAB	AlGaInP	Orange	610	605						2.10	2.40	15.00	30.00	C.C
KW4-562AAB														C.A
KW4-562CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	C.C			
KW4-562AGB											C.A			
KW4-562CBB	InGaIn	Blue	468	470			2.90	3.10	13.00	25.00	C.C			
KW4-562ABB											C.A			
KW4-562CWB	InGaIn	White	x=0.30	y=0.31	2.90	3.10	10	65.00	130.00	C.C				
KW4-562AWB										C.A				

0.56" Quadruple Digit LED Display

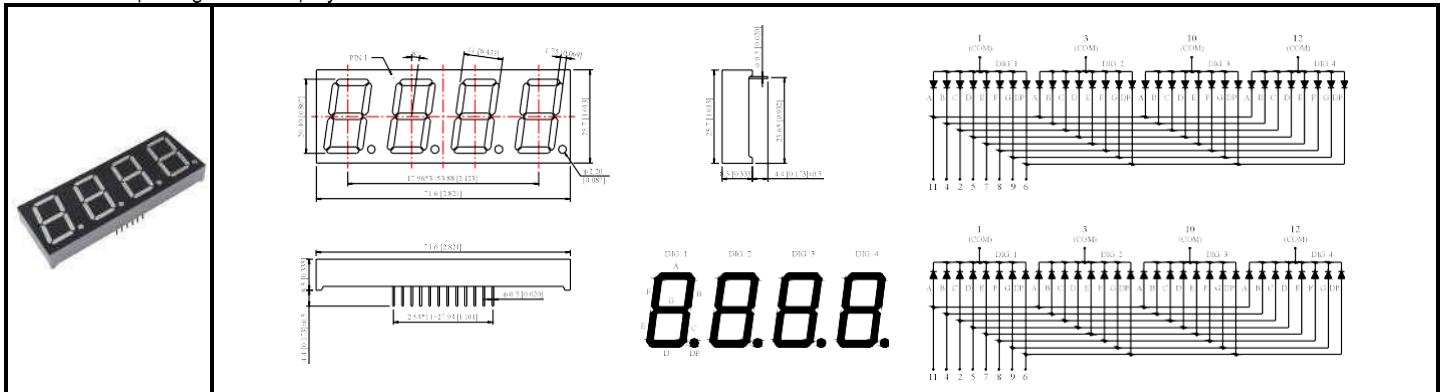





KW4-566CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	C.C		
KW4-566AVB												C.A		
KW4-566CAB	AlGaInP	Orange	610	605						2.10	2.40	15.00	30.00	C.C
KW4-566AAB														C.A
KW4-566CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	C.C			
KW4-566AGB											C.A			
KW4-566CBB	InGaIn	Blue	468	470			2.90	3.10	13.00	25.00	C.C			
KW4-566ABB											C.A			
KW4-566CWB	InGaIn	White	x=0.30	y=0.31	2.90	3.10	10	65.00	130.00	C.C				
KW4-566AWB										C.A				

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2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

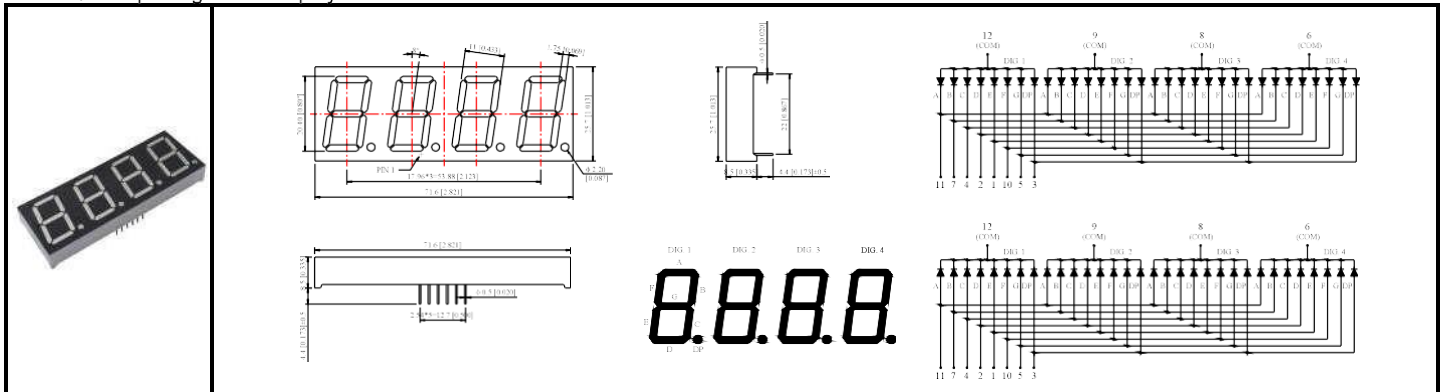
Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.80" Quadruple Digit LED Display



KW4-801CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	45.00	90.00	C.C	
KW4-801AVB												C.A	
KW4-801CAB	AlGaInP	Orange	610	605			2.10	2.40		10	17.00	34.00	C.C
KW4-801AAB													C.A
KW4-801CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	10	10.00	20.00	C.C	
KW4-801AGB												C.A	
KW4-801CBB	InGaN	Blue	468	470			2.90	3.10	10	14.00	28.00	C.C	
KW4-801ABB												C.A	
KW4-801CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	10	70.00	135.00	C.C			
KW4-801AWB										C.A			

0.80" Quadruple Digit LED Display



KW4-802CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	45.00	90.00	C.C	
KW4-802AVB												C.A	
KW4-802CAB	AlGaInP	Orange	610	605			2.10	2.40		10	17.00	34.00	C.C
KW4-802AAB													C.A
KW4-802CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	10	10.00	20.00	C.C	
KW4-802AGB												C.A	
KW4-802CBB	InGaN	Blue	468	470			2.90	3.10	10	14.00	28.00	C.C	
KW4-802ABB												C.A	
KW4-802CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	10	70.00	135.00	C.C			
KW4-802AWB										C.A			

- All dimensions are in millimeters (inches).
- Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
- Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.80" Quadruple Digit LED Display

KW4-804CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	45.00	90.00	C.C
KW4-804AVB			C.A									
KW4-804CAB	AlGaInP	Orange	610	605			2.10	2.40		17.00	34.00	C.C
KW4-804AAB			C.A									
KW4-804CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	10.00	20.00	C.C	
KW4-804AGB			C.A									
KW4-804CBB	InGaIn	Blue	468	470			2.90	3.10	10	14.00	28.00	C.C
KW4-804ABB			C.A									
KW4-804CWB	InGaIn	White	x=0.30	y=0.31	2.90	3.10	70.00	135.00		C.C		
KW4-804AWB			C.A									

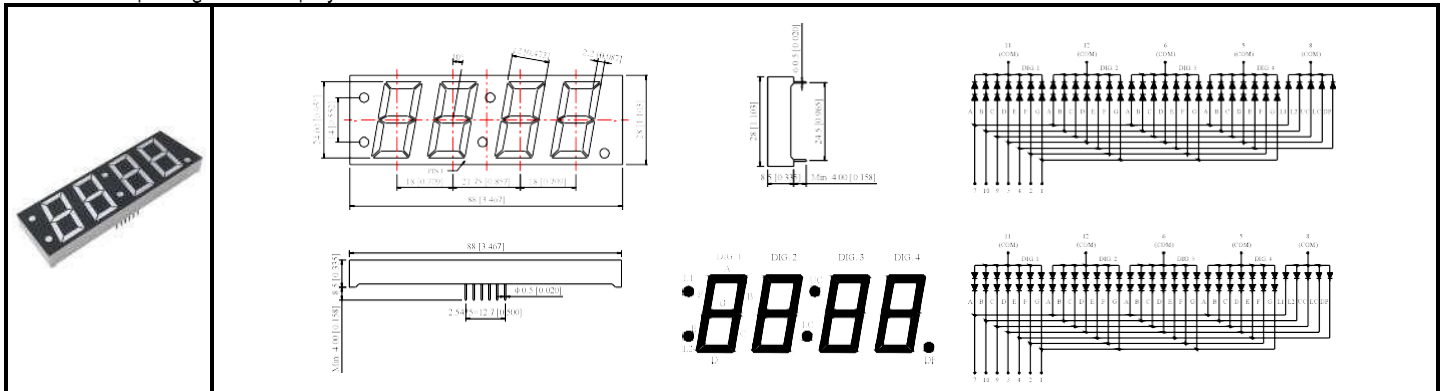
0.80" Quadruple Digit LED Display

KW4-806CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	45.00	90.00	C.C
KW4-806AVB			C.A									
KW4-806CAB	AlGaInP	Orange	610	605			2.10	2.40		17.00	34.00	C.C
KW4-806AAB			C.A									
KW4-806CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	10.00	20.00	C.C	
KW4-806AGB			C.A									
KW4-806CBB	InGaIn	Blue	468	470			2.90	3.10	10	14.00	28.00	C.C
KW4-806ABB			C.A									
KW4-806CWB	InGaIn	White	x=0.30	y=0.31	2.90	3.10	70.00	135.00		C.C		
KW4-806AWB			C.A									

- All dimensions are in millimeters (inches).
- Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
- Specifications are subject to change without notice.

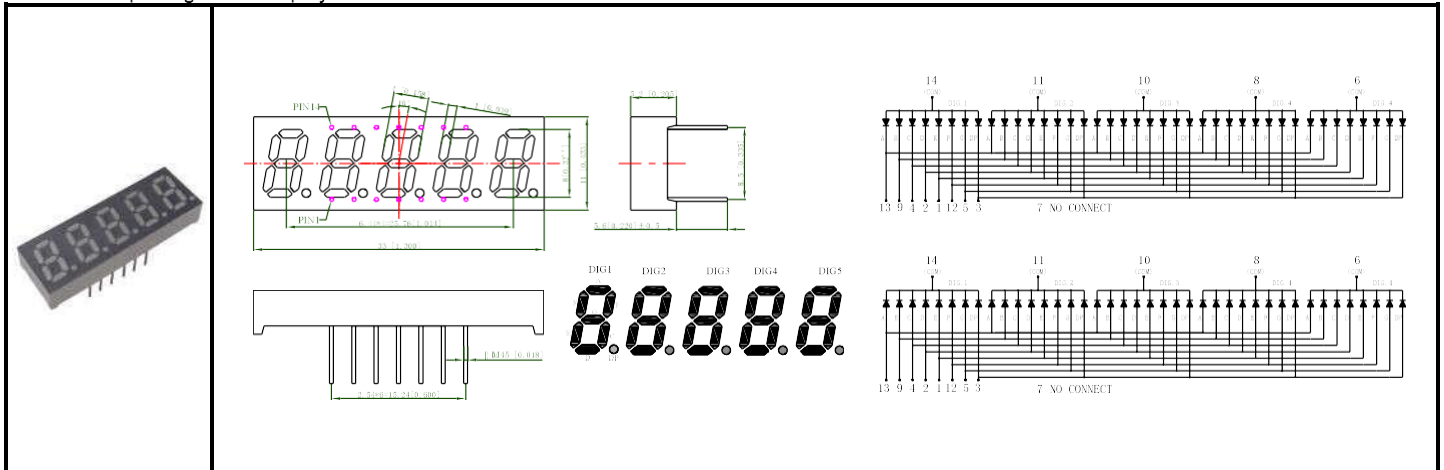
Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.94" Quadruple Digit LED Display



KW4-8828CVB	AlGaInP	Red	632	624	Black	White Diffused	4.00	4.60	20	46.00	92.00	C.C			
KW4-8828AVB												C.A			
KW4-8828CAB	AlGaInP	Orange	610	605						4.00	4.60	20	18.00	36.00	C.C
KW4-8828AAB															C.A
KW4-8828CGB	AlGaInP	Yellow Green	575	572			4.00	4.60	20	11.00	22.00	C.C			
KW4-8828AGB												C.A			
KW4-8828CBB	InGaN	Blue	468	470			5.80	6.20	10	14.50	29.00	C.C			
KW4-8828ABB												C.A			
KW4-8828CWB	InGaN	White	x=0.30	y=0.31	5.80	6.20						10	70.00	140.00	C.C
KW4-8828AWB															C.A

0.32" Quintuple Digit LED Display



KW5-321CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	25.00	50.00	C.C	
KW5-321AVA												C.A	
KW5-321CAA	AlGaInP	Orange	610	605			2.10	2.40		20	14.00	28.00	C.C
KW5-321AAA													C.A
KW5-321CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		20	8.00	16.00	C.C
KW5-321AGA					C.A								

- All dimensions are in millimeters (inches).
- Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
- Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.36" Quintuple Digit LED Display

KW5-362CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	20.00	40.00	C.C
KW5-362AVA												C.A
KW5-362CAA	AlGaInP	Orange	610	605			2.10	2.40		5.00	10.00	C.C
KW5-362AAA												C.A
KW5-362CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		5.00	10.00	C.C
KW5-362AGA												C.A

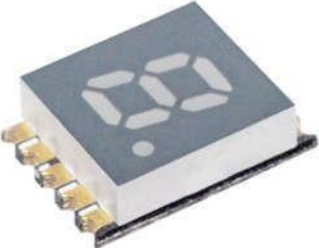
0.40" Quintuple Digit LED Display

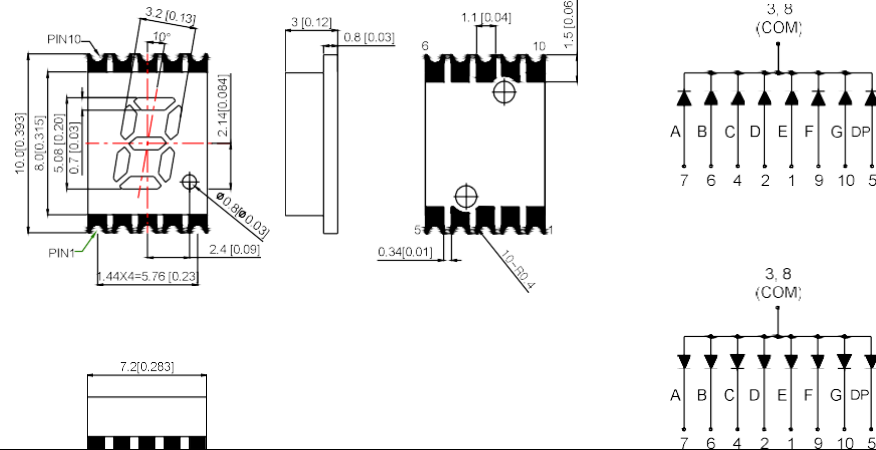
KW5-401CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	25.00	50.00	C.C
KW5-401AVA												C.A
KW5-401CAA	AlGaInP	Orange	610	605			2.10	2.40		8.00	16.00	C.C
KW5-401AAA												C.A
KW5-401CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		10.00	20.00	C.C
KW5-401AGA												C.A
KW5-401CBA	InGaIn	Blue	468	470	2.90	3.10	23.00	45.00	C.C			
KW5-401ABA									C.A			
KW5-401CWA	InGaIn	White	x=0.30	y=0.31	2.90	3.10	10	23.00	45.00	C.C		
KW5-401AWA										C.A		

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

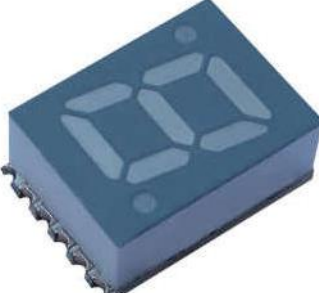
0.20" Single Digit SMD Display

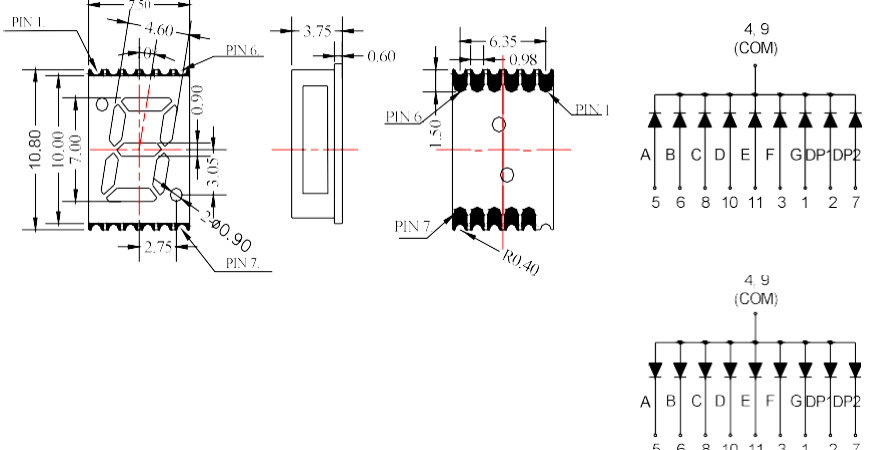




KW1-S202CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	10	7.00	14.00	C.C
KW1-S202AVA			C.A									
KW1-S202CAA	AlGaInP	Orange	610	605			2.10	2.40		8.00	16.00	C.C
KW1-S202AAA			C.A									
KW1-S202CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		4.00	8.00	C.C
KW1-S202AGA			C.A									

0.28" Single Digit SMD Display





KW1-S281CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	7.00	14.00	C.C
KW1-S281AVA			C.A									
KW1-S281CAA	AlGaInP	Orange	610	605			2.10	2.40		8.00	16.00	C.C
KW1-S281AAA			C.A									
KW1-S281CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		4.00	8.00	C.C
KW1-S281AGA			C.A									

1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.39" Single Digit SMD Display

	KW1-S391CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	9.00	18.00	C.C
	KW1-S391AVA			C.A									
	KW1-S391CAA	AlGaInP	Orange	610	605			2.10	2.40		10.00	20.00	C.C
	KW1-S391AAA			C.A									
	KW1-S391CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		4.50	8.50	C.C
KW1-S391AGA	C.A												


0.56" Single Digit SMD Display

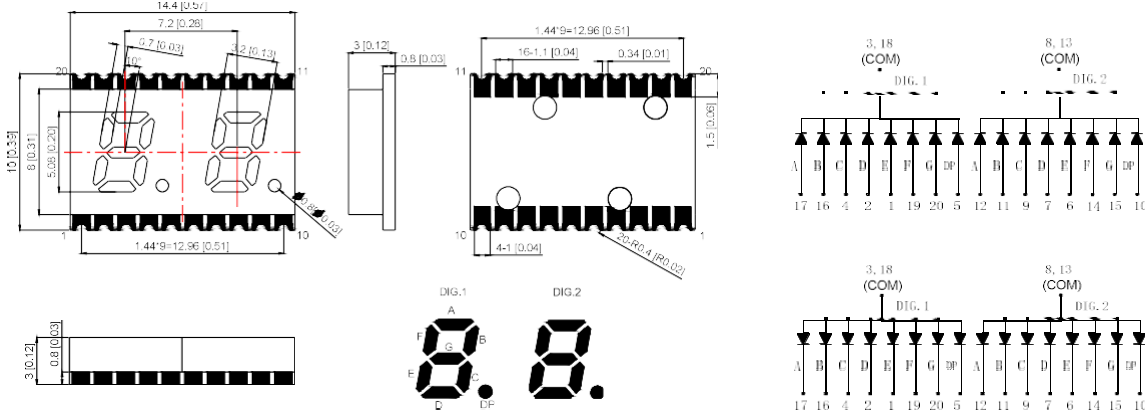
	KW1-S561CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	13.00	26.00	C.C
	KW1-S561AVB			C.A									
	KW1-S561CAB	AlGaInP	Orange	610	605			2.10	2.40		14.00	28.00	C.C
	KW1-S561AAB			C.A									
	KW1-S561CGB	AlGaInP	Yellow Green	575	572			2.00	2.40		4.50	9.00	C.C
	KW1-S561AGB			C.A									
	KW1-S561CBB	InGaN	Blue	468	470			2.90	3.10		13.00	25.00	C.C
	KW1-S561ABB			C.A									
KW1-S561CWB	InGaN	White	x=0.30	y=0.31	2.90			3.10	50.00		100.00	C.C	
KW1-S561AWB			C.A										

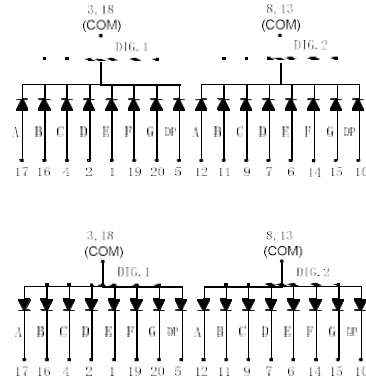
- All dimensions are in millimeters (inches).
- Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
- Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.20" Dual Digit SMD Display




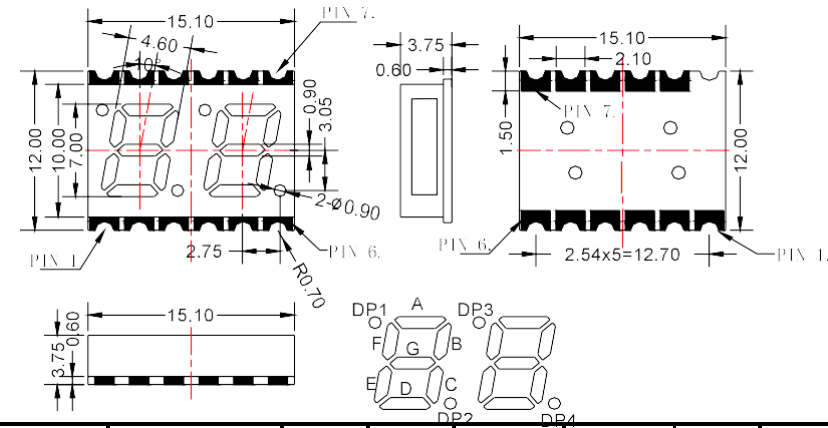


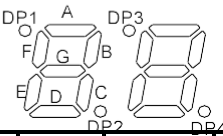


KW2-S201CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	10	7.00	14.00	C.C
KW2-S201AVA			C.A									
KW2-S201CAA	AlGaInP	Orange	610	605			2.10	2.40		8.00	16.00	C.C
KW2-S201AAA			C.A									
KW2-S201CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		4.00	8.00	C.C
KW2-S201AGA			C.A									

0.28" Dual Digit SMD Display








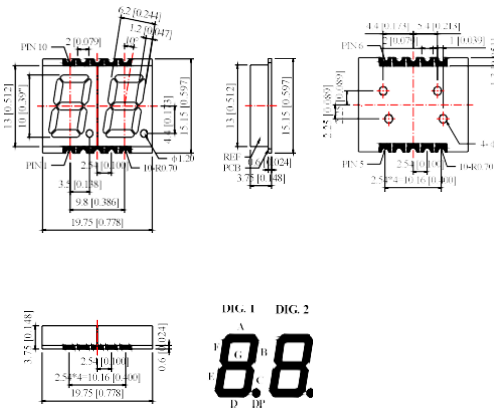
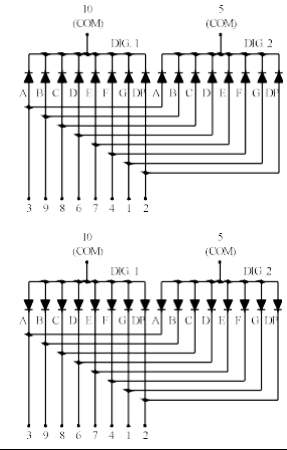
KW2-S281CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	7.00	14.00	C.C
KW2-S281AVA			C.A									
KW2-S281CAA	AlGaInP	Orange	610	605			2.10	2.40		8.00	16.00	C.C
KW2-S281AAA			C.A									
KW2-S281CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		4.00	8.00	C.C
KW2-S281AGA			C.A									

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	


0.39" Dual Digit SMD Display

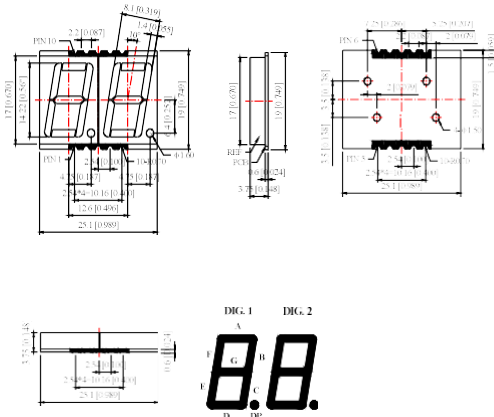
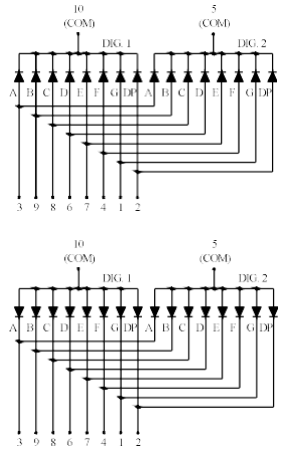


KW2-S391CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	9.00	18.00	C.C
KW2-S391AVA												C.A
KW2-S391CAA	AlGaInP	Orange	610	605			2.10	2.40		10.00	20.00	C.C
KW2-S391AAA												C.A
KW2-S391CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		4.50	8.50	C.C
KW2-S391AGA												C.A

0.56" Dual Digit SMD Display







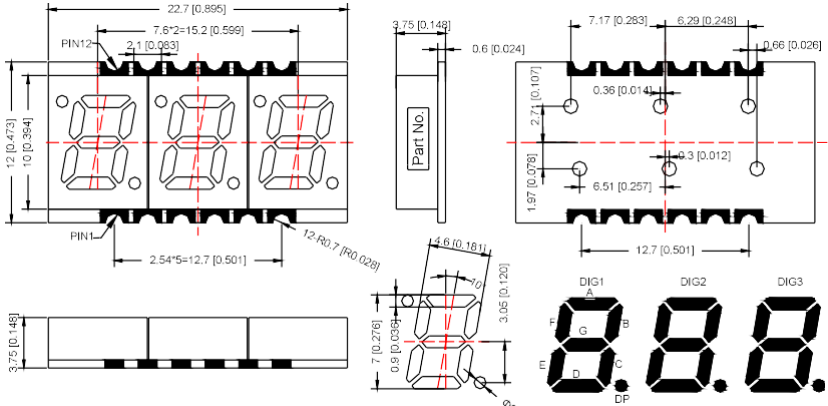
KW2-S561CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	10	13.00	26.00	C.C
KW2-S561AVB												C.A
KW2-S561CAB	AlGaInP	Orange	610	605			2.10	2.40		14.00	28.00	C.C
KW2-S561AAB												C.A
KW2-S561CGB	AlGaInP	Yellow Green	575	572			2.00	2.40		4.50	9.00	C.C
KW2-S561AGB												C.A
KW2-S561CBB	InGaIn	Blue	468	470			2.90	3.10		13.00	25.00	C.C
KW2-S561ABB												C.A
KW2-S561CWB	InGaIn	White	x=0.30	y=0.31	2.90	3.10	50.00	100.00	C.C			
KW2-S561AWB									C.A			

- All dimensions are in millimeters (inches).
- Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
- Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	


0.28" Triple Digit SMD Display

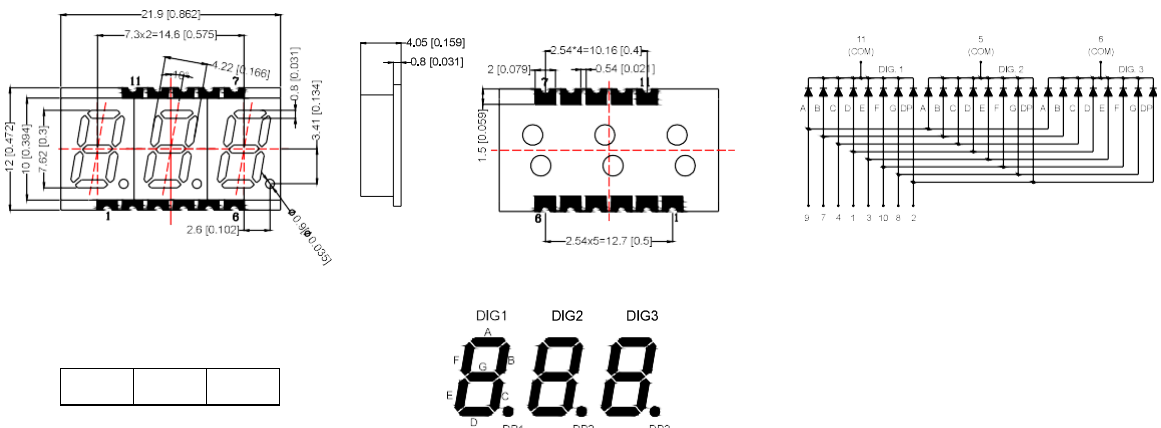




KW3-S282CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	7.00	14.00	C.C
KW3-S282AVA			C.A									
KW3-S282CAA	AlGaInP	Orange	610	605			2.10	2.40		8.00	16.00	C.C
KW3-S282AAA			C.A									
KW3-S282CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		4.00	8.00	C.C
KW3-S282AGA			C.A									

0.30" Triple Digit SMD Display





KW3-S301CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	10	7.50	15.00	C.C
KW3-S301AVA			C.A									
KW3-S301CAA	AlGaInP	Orange	610	605			2.10	2.40		8.50	17.00	C.C
KW3-S301AAA			C.A									
KW3-S301CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		4.50	8.50	C.C
KW3-S301AGA			C.A									

- All dimensions are in millimeters (inches).
- Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
- Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.39" Triple Digit SMD Display

KW3-S391CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	9.00	18.00	C.C
KW3-S391AVA			C.A									
KW3-S391CAA	AlGaInP	Orange	610	605			2.10	2.40		10.00	20.00	C.C
KW3-S391AAA			C.A									
KW3-S391CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		4.50	8.50	C.C
KW3-S391AGA			C.A									

0.56" Triple Digit SMD Display

KW3-S561CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	13.00	26.00	C.C
KW3-S561AVB			C.A									
KW3-S561CAB	AlGaInP	Orange	610	605			2.10	2.40		14.00	28.00	C.C
KW3-S561AAB			C.A									
KW3-S561CGB	AlGaInP	Yellow Green	575	572			2.00	2.40		4.50	9.00	C.C
KW3-S561AGB			C.A									
KW3-S561CBB	InGaIn	Blue	468	470	2.90	3.10	13.00	25.00	C.C			
KW3-S561ABB			C.A									
KW3-S561CWB	InGaIn	White	x=0.30	y=0.31	2.90	3.10	50.00	100.00	C.C			
KW3-S561AWB			C.A									

- All dimensions are in millimeters (inches).
- Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
- Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.28" Quadruple Digit SMD Display

	KW4-S281CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	7.00	14.00	C.C
	KW4-S281AVA												C.A
	KW4-S281CAA	AlGaInP	Orange	610	605			2.10	2.40		8.00	16.00	C.C
	KW4-S281AAA												C.A
	KW4-S281CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		4.00	8.00	C.C
KW4-S281AGA	C.A												


0.30" Quadruple Digit SMD Display

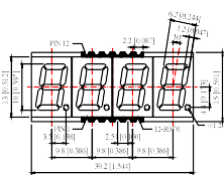
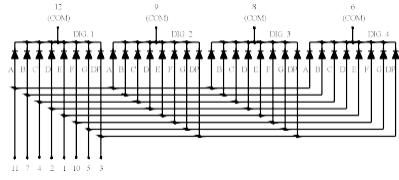
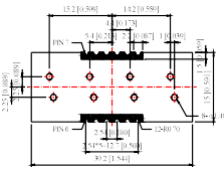
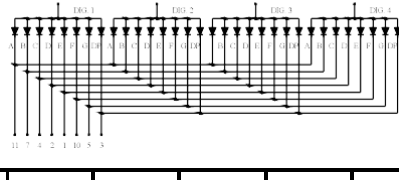
	KW4-S301CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	10	7.50	15.00	C.C
	KW4-S301AVA												C.A
	KW4-S301CAA	AlGaInP	Orange	610	605			2.10	2.40		8.50	17.00	C.C
	KW4-S301AAA												C.A
	KW4-S301CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		4.50	8.50	C.C
KW4-S301AGA	C.A												

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	


0.39" Quadruple Digit SMD Display

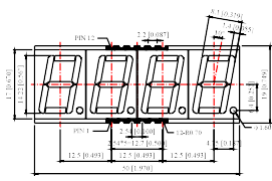
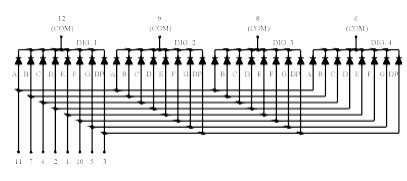
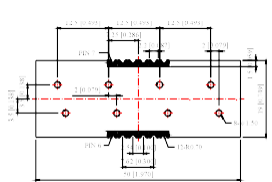
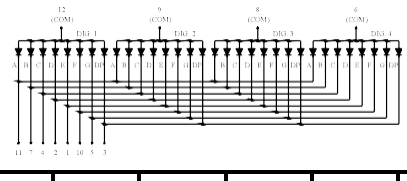


KW4-S391CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	9.00	18.00	C.C
KW4-S391AVA			C.A									
KW4-S391CAA	AlGaInP	Orange	610	605			2.10	2.40		10.00	20.00	C.C
KW4-S391AAA			C.A									
KW4-S391CGA	AlGaInP	Yellow Green	575	572			2.00	2.40		4.50	8.50	C.C
KW4-S391AGA			C.A									

0.56" Quadruple Digit SMD Display



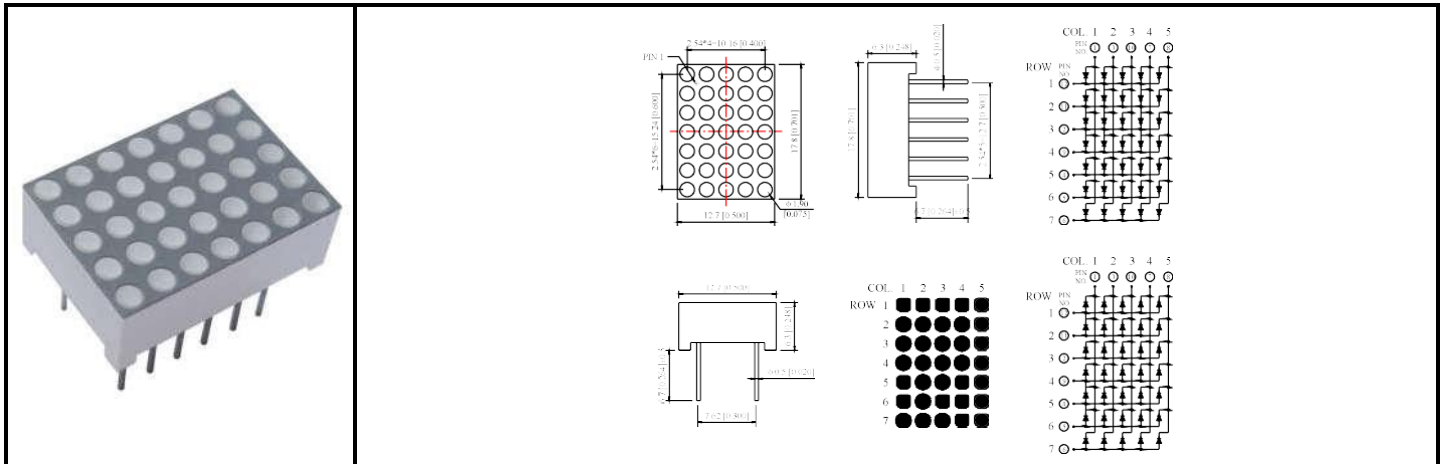





KW4-S561CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	10	13.00	26.00	C.C
KW4-S561AVB			C.A									
KW4-S561CAB	AlGaInP	Orange	610	605			2.10	2.40		14.00	28.00	C.C
KW4-S561AAB			C.A									
KW4-S561CGB	AlGaInP	Yellow Green	575	572			2.00	2.40		4.50	9.00	C.C
KW4-S561AGB			C.A									
KW4-S561CBB	InGaN	Blue	468	470			2.90	3.10		13.00	25.00	C.C
KW4-S561ABB			C.A									
KW4-S561CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	50.00	100.00	C.C			
KW4-S561AWB			C.A									

1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
 3. Specifications are subject to change without notice.

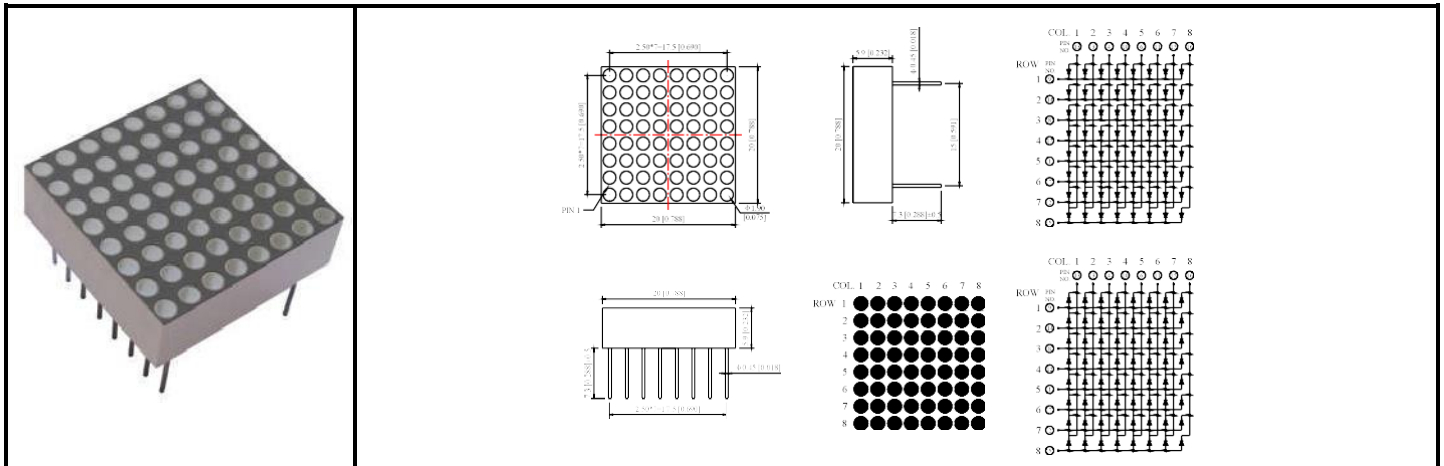
Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

0.70" 5x7 Dot Matrix



KWM-20571CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	30.00	60.00	Row C
KWM-20571AVA												Row A
KWM-20571CAA	AlGaInP	Orange	610	605	Gray	White Diffused	2.10	2.40	20	20.00	40.00	Row C
KWM-20571AAA												Row A
KWM-20571CGA	AlGaInP	Yellow Green	575	572	Gray	White Diffused	2.00	2.40	20	15.00	30.00	Row C
KWM-20571AGA												Row A

0.8" 8x8 Dot Matrix



KWM-20881CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	30.00	60.00	Row C
KWM-20881AVA												Row A
KWM-20881CAA	AlGaInP	Orange	610	605	Gray	White Diffused	2.10	2.40	20	20.00	40.00	Row C
KWM-20881AAA												Row A
KWM-20881CGA	AlGaInP	Yellow Green	575	572	Gray	White Diffused	2.00	2.40	20	15.00	30.00	Row C
KWM-20881AGA												Row A

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

1.54" 5x7 Dot Matrix

KWM-30571CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	35.00	70.00	Row C
KWM-30571AVB												Row A
KWM-30571CAB	AlGaInP	Orange	610	605			2.10	2.40		23.00	46.00	Row C
KWM-30571AAB												Row A
KWM-30571CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	17.00	34.00	Row C	
KWM-30571AGB											Row A	
KWM-30571CBB	InGaN	Blue	468	470			2.90	3.10	13.00	25.00	Row C	
KWM-30571ABB											Row A	
KWM-30571CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	Row C			
KWM-30571AWB									Row A			

1.5" 5x8 Dot Matrix

KWM-30581CVA	AlGaInP	Red	632	624	Gray	White Diffused	2.00	2.40	20	40.00	80.00	Row C
KWM-30581AVA												Row A
KWM-30581CAA	AlGaInP	Orange	610	605			2.10	2.40		15.00	30.00	Row C
KWM-30581AAA												Row A
KWM-30581CGA	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	Row C	
KWM-30581AGA											Row A	
KWM-30581CBA	InGaN	Blue	468	470			2.90	3.10	12.50	25.00	Row C	
KWM-30581ABA											Row A	
KWM-30581CWA	InGaN	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	Row C			
KWM-30581AWA									Row A			

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

1.2" 8x8 Dot Matrix

KWM-30881CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	35.00	70.00	Row C
KWM-30881AVB			Row A									
KWM-30881CAB	AlGaInP	Orange	610	605			2.10	2.40		23.00	46.00	Row C
KWM-30881AAB			Row A									
KWM-30881CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	17.00	34.00	Row C	
KWM-30881AGB			Row A									
KWM-30881CBB	InGaN	Blue	468	470			2.90	3.10	10	13.00	25.00	Row C
KWM-30881ABB			Row A									
KWM-30881CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	Row C			
KWM-30881AWB			Row A									

1.5" 8x8 Dot Matrix

KWM-37881CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	Row C
KWM-37881AVB			Row A									
KWM-37881CAB	AlGaInP	Orange	610	605			2.10	2.40		15.00	30.00	Row C
KWM-37881AAB			Row A									
KWM-37881CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	8.00	16.00	Row C	
KWM-37881AGB			Row A									
KWM-37881CBB	InGaN	Blue	468	470			2.90	3.10	10	12.50	25.00	Row C
KWM-37881ABB			Row A									
KWM-37881CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	65.00	130.00	Row C			
KWM-37881AWB			Row A									

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

2.0" 5x7 Dot Matrix

KWM-50571CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	Row C
KWM-50571AVB			Row A									
KWM-50571CAB	AlGaInP	Orange	610	605			2.10	2.40		25.00	50.00	Row C
KWM-50571AAB			Row A									
KWM-50571CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	18.00	36.00	Row C	
KWM-50571AGB			Row A									
KWM-50571CBB	InGaN	Blue	468	470			2.90	3.10	10	15.00	30.00	Row C
KWM-50571ABB			Row A									
KWM-50571CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	70.00	135.00	Row C			
KWM-50571AWB					Row A							

2.4" 5x8 Dot Matrix

KWM-50581CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	Row C
KWM-50581AVB			Row A									
KWM-50581CAB	AlGaInP	Orange	610	605			2.10	2.40		25.00	50.00	Row C
KWM-50581AAB			Row A									
KWM-50581CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	18.00	36.00	Row C	
KWM-50581AGB			Row A									
KWM-50581CBB	InGaN	Blue	468	470			2.90	3.10	10	15.00	30.00	Row C
KWM-50581ABB			Row A									
KWM-50581CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	70.00	135.00	Row C			
KWM-50581AWB					Row A							

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2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

2.4" 8x8 Dot Matrix

KWM-50881CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	Row C
KWM-50881AVB			Row A									
KWM-50881CAB	AlGaInP	Orange	610	605			2.10	2.40		25.00	50.00	Row C
KWM-50881AAB			Row A									
KWM-50881CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	18.00	36.00	Row C	
KWM-50881AGB			Row A									
KWM-50881CBB	InGaN	Blue	468	470			2.90	3.10	10	15.00	30.00	Row C
KWM-50881ABB			Row A									
KWM-50881CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	70.00	135.00	Row C			
KWM-50881AWB			Row A									

1.2" 8x8 Dot Matrix

KWM-R30881CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	Row C
KWM-R30881AVB			Row A									
KWM-R30881CAB	AlGaInP	Orange	610	605			2.10	2.40		25.00	50.00	Row C
KWM-R30881AAB			Row A									
KWM-R30881CGB	AlGaInP	Yellow Green	575	572			2.00	2.40	18.00	36.00	Row C	
KWM-R30881AGB			Row A									
KWM-R30881CBB	InGaN	Blue	468	470			2.90	3.10	10	15.00	30.00	Row C
KWM-R30881ABB			Row A									
KWM-R30881CWB	InGaN	White	x=0.30	y=0.31	2.90	3.10	70.00	135.00	Row C			
KWM-R30881AWB			Row A									

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

1.57" 16x16 Dot Matrix

KWM-181616CV	AlGaInP	Red	632	624	/	Clarity	2.00	2.40	20	40.00	80.00	Row C
KWM-181616AV							Row A					
KWM-181616CA	AlGaInP	Orange	610	605			2.10	2.40		35.00	70.00	Row C
KWM-181616AA							Row A					
KWM-181616CG	AlGaInP	Yellow Green	575	572			2.00	2.40		18.00	36.00	Row C
KWM-181616AG							Row A					

1.6" 16x16 Dot Matrix

KWM-2016161CVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	30.00	60.00	Row C
KWM-2016161AVB							Row A					
KWM-2016161CAB	AlGaInP	Orange	610	605			2.10	2.40		22.00	40.00	Row C
KWM-2016161AAB							Row A					
KWM-2016161CGB	AlGaInP	Yellow Green	575	572			2.00	2.40		15.00	30.00	Row C
KWM-2016161AGB							Row A					

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

3.1" 32x16 Dot Matrix

	KWM-2032161AV	AlGaInP		632	624	Black	Clarity	2.00	2.40	20	40.00	80.00	Row A
	KWM-2032161AA	AlGaInP	Red	610	605			2.10	2.40		30.00	60.00	Row A
	KWM-2032161AG	AlGaInP	Orange	575	572			2.00	2.40		15.00	30.00	Row A
		Yellow Green											

1.2" 8x8 Bi-Color Dot Matrix

	KWM-30881CVPGB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	10	18.00	35.00	Row C
		InGaN	Pure Green	520	525			2.90	3.10		70.00	140.00	Row C
	KWM-30881AVPGB	AlGaInP	Red	632	624			2.00	2.40		18.00	35.00	Row A
	InGaN	Pure Green	520	525	2.90	3.10	70.00	140.00	Row A				

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

2.4" 8x8 Bi-Color Dot Matrix

	KWM-50881CVPGB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	10	20.00	40.00
	InGaN	Pure Green	520	525	2.90			3.10	75.00		150.00	
KWM-50881AVPGB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	10	20.00	40.00	Row A
		InGaN	Pure Green	520			525	2.90		3.10	75.00	

2.4" 8x8 Multi-Color Dot Matrix

	KWM-50884CRGGB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	10	20.00	40.00	Row C
	InGaN	Pure Green	520	525	2.90			3.10	75.00		150.00		
	InGaN	Blue	468	470	2.90			3.10	15.00		30.00		
KWM-50884ARGGB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	10	20.00	40.00	Row A	
		InGaN	Pure Green	520			525	2.90		3.10	75.00		150.00
		InGaN	Blue	468			470	2.90		3.10	15.00		30.00

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

Dual Digit 0.54 inch (13.60 mm) Alphanumeric LED Display

KWA-541AVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	20.00	40.00	C.C
KWA-541CVB			C.A									
KWA-541AAB	AlGaInP	Orange	610	605			2.10	2.40		15.00	30.00	C.C
KWA-541CAB			C.A									
KWA-541AGB	AlGaInP	Yellow Green	575	572			2.00	2.40		7.00	14.00	C.C
KWA-541CGB			C.A									

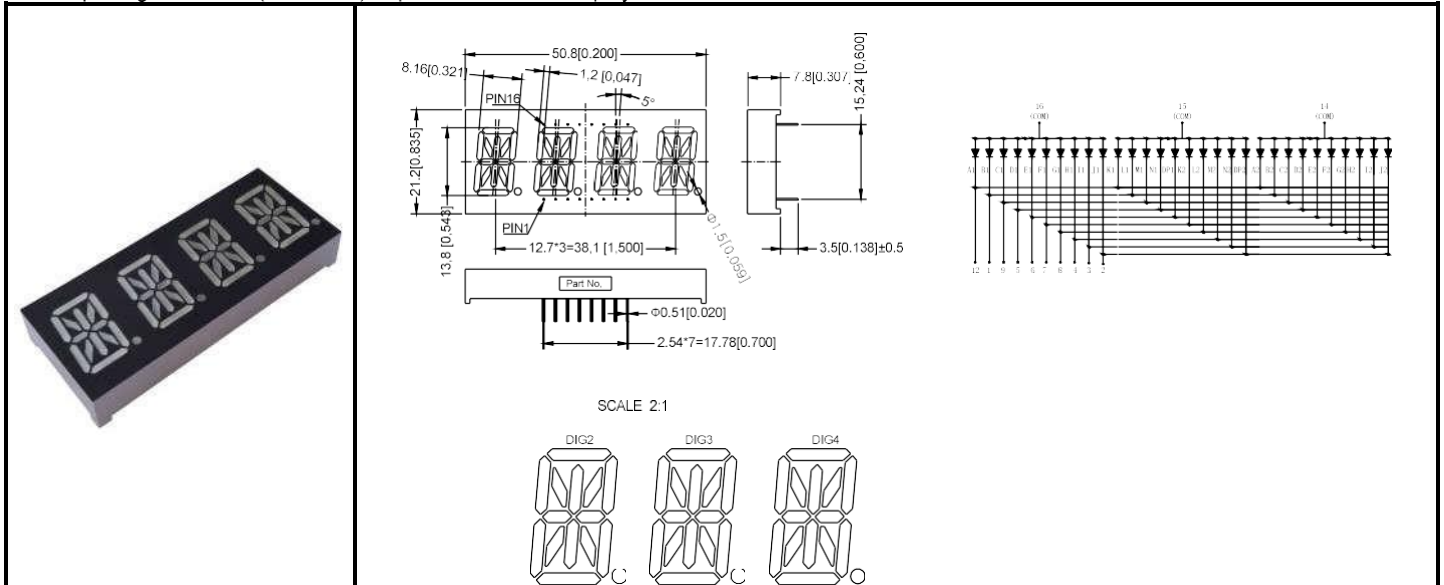
Triple Digit 0.54 inch (13.80 mm) Alphanumeric LED Display

KWA3-541AVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	20.00	40.00	C.C
KWA3-541CVB			C.A									
KWA3-541AAB	AlGaInP	Orange	610	605			2.10	2.40		15.00	30.00	C.C
KWA3-541CAB			C.A									
KWA3-541AGB	AlGaInP	Yellow Green	575	572			2.00	2.40		7.00	14.00	C.C
KWA3-541CGB			C.A									

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

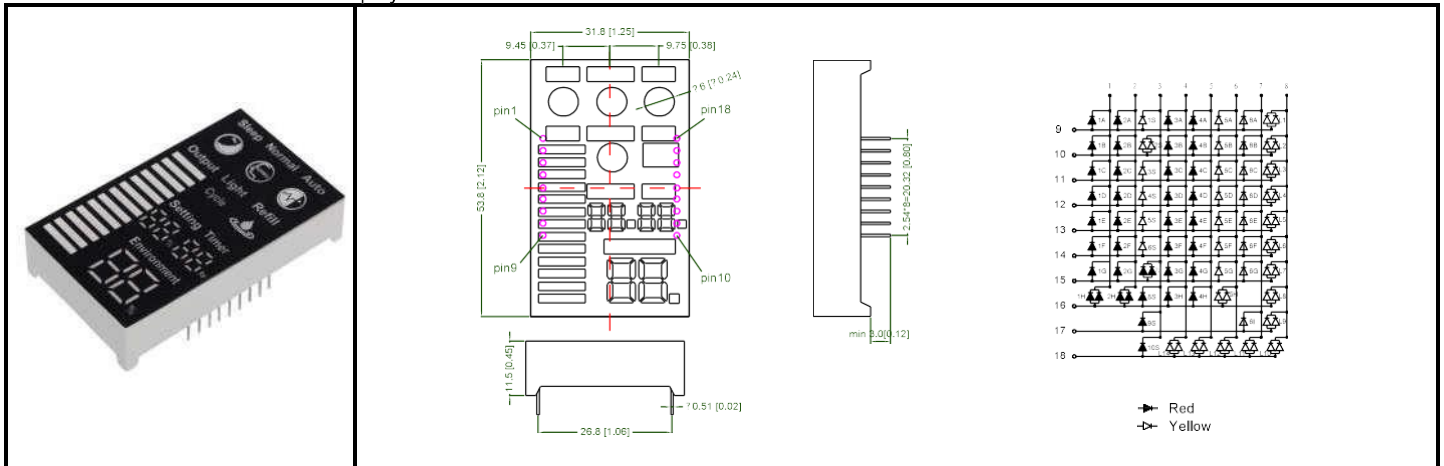
Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

Quadruple Digit 0.54 inch (13.80 mm) Alphanumeric LED Display



KWA4-542AVB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	20.00	40.00	C.C
KWA4-542CVB												
KWA4-542AAB	AlGaInP	Orange	610	605	Black	White Diffused	2.10	2.40	20	15.00	30.00	C.C
KWA4-542CAB												
KWA4-542AGB	AlGaInP	Yellow Green	575	572	Black	White Diffused	2.00	2.40	20	7.00	14.00	C.C
KWA4-542CGB												

2.1" 53.8x31.8 Custom-built LED Display



KWS-L54W32CM-1	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	10	30.00	60.00	---
	AlGaInP	Yellow	590	588						2.00	2.40	

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

10 Segment Light Bar LED Display

KWL-R1025VB	AlGaInP	Red	632	624	Black	White Diffused	2.00	2.40	20	40.00	80.00	—
KWL-R1025AB	AlGaInP	Orange	610	605			2.10	2.40		25.00	50.00	—
KWL-R1025GB	AlGaInP	Yellow Green	575	572			2.00	2.40		10.00	20.00	—
KWL-R1025BB	InGaN	Blue	468	y=0.31			2.90	3.10	10	18.00	36.00	—
KWL-R1025WB	InGaN	White	x=0.30				2.90	3.10		65.00	130.00	—

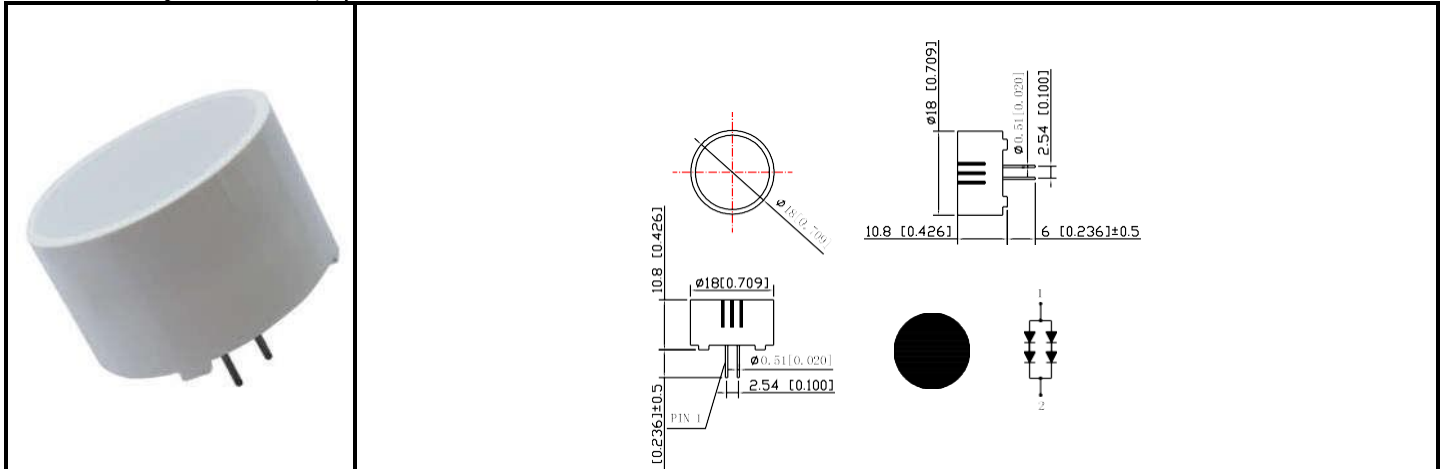
12.5x6.3mm Light Bar LED Display

KWL-R7141VW	AlGaInP	Red	632	624	White	White Diffused	2.00	2.40	20	42.00	84.00	—
KWL-R7141AW	AlGaInP	Orange	610	572			2.10	2.40		26.00	52.00	—
KWL-R7141GW	AlGaInP	Yellow Green	575	470			2.00	2.40		11.00	22.00	—
KWL-R7141BW	InGaN	Blue	468	y=0.31			2.90	3.10	10	18.00	36.00	—
KWL-R7141WW	InGaN	White	x=0.30				2.90	3.10		70.00	135.00	—

- All dimensions are in millimeters (inches).
- Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
- Specifications are subject to change without notice.

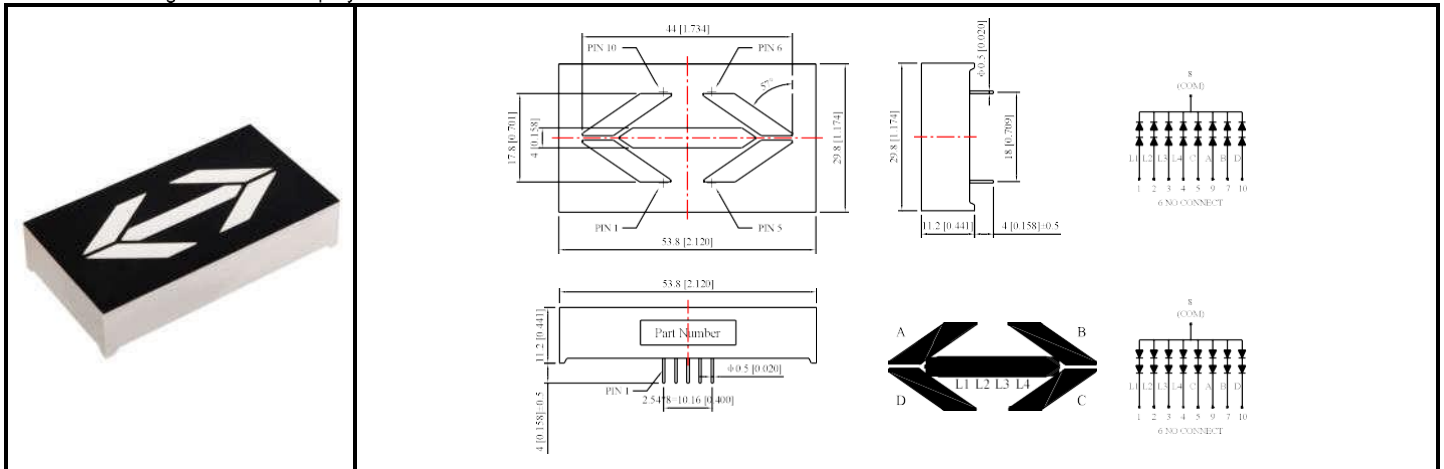
Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	Segment Color	VF (V)		IV (mcd)			C.C / C.A
							Typ.	Max.	IF=mA	Min.	Typ.	

18mm Round Light Bar LED Display



KWL-C181VW	AlGaInP			624			2.00	2.40		43.00	86.00	---
KWL-C181AW	AlGaInP	Red	632	605	White	White Diffused	2.10	2.40	20	28.00	56.00	---
KWL-C181GW	AlGaInP	Orange	610	572			2.00	2.40		12.00	24.00	---
KWL-C181BW	InGaN	Yellow Green	575	470			2.90	3.10	10	19.00	38.00	---
KWL-C181WW	InGaN	Blue	468	y=0.31			2.90	3.10		70.00	140.00	---
		White	x=0.30									

53.8×29.8mm Light Bar LED Display



KWL-18021CVB	AlGaInP	Red	632	624	Black	White Diffused	4.00	4.60	20	40.00	80.00	C.C
KWL-18021AVB												C.A
KWL-18021CAB	AlGaInP	Orange	610	605			4.00	4.60		26.00	52.00	C.C
KWL-18021AAB												C.A
KWL-18021CGB	AlGaInP	Yellow Green	575	572			4.00	4.60	10.00	20.00	C.C	
KWL-18021AGB											C.A	
KWL-18021CBB	InGaN	Blue	468	470			5.80	6.20	18.00	36.00	C.C	
KWL-18021ABB											C.A	
KWL-18021CWB	InGaN	White	x=0.30	y=0.31	5.80	6.20	65.00	130.00	C.C			
KWL-18021AWB									C.A			

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	VF (V)		Lv (cd/m ²)		
						Typ.	Max.	IF=mA	Min.	Typ.

38.70×11.90×2.20mm (L×W×H)

KWB-R3912-1B	InGaN	Blue	468	470	White	2.90	3.10	10	40.00	70.00
KWB-R3912-1W	InGaN	White	x=0.30	y=0.31	Diffused	2.90	3.10		50.00	100.00


65.50×60.00×2.80mm (L×W×H)

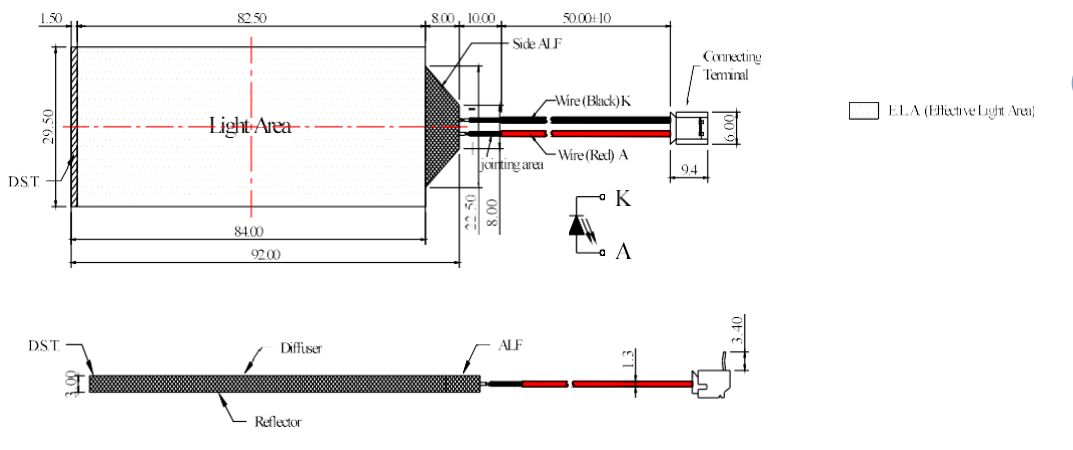
KWB-R6560-P4B	InGaN	Blue	468	470	White	5.00	5.20	40	200.00	350.00
KWB-R6560-P4W	InGaN	White	x=0.30	y=0.31	Diffused	5.00	5.20		300.00	500.00

- All dimensions are in millimeters (inches).
- Tolerance is ±0.25mm (.010") unless otherwise noted.
- Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λ_p (nm) / x	λ_d (nm) / y	Face Color	VF (V)		Lv (cd/m ²)		
						Typ.	Max.	IF=mA	Min.	Typ.

82.50×29.50×3.00mm (L×W×H)




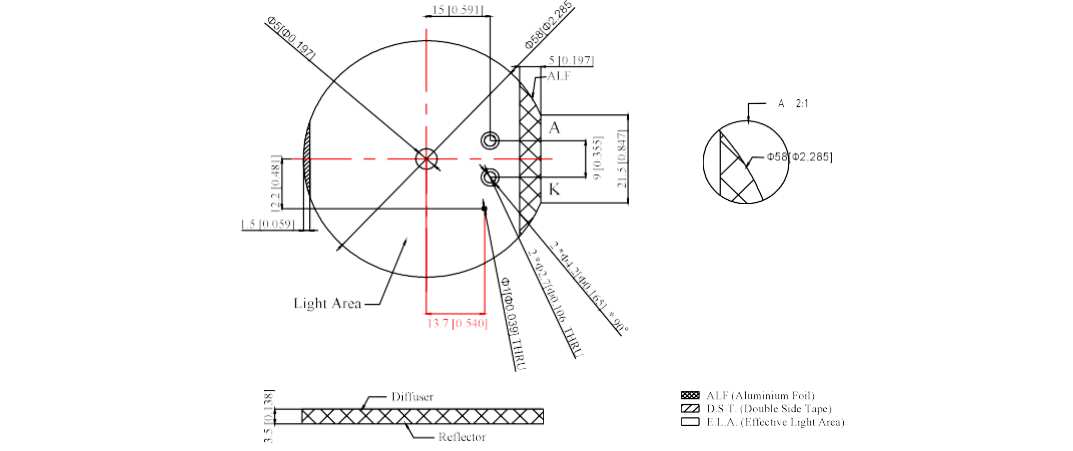


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KWB-R8330-1B-L50	InGaN	Blue	468	470	White	2.90	3.10	10	15.00	25.00
KWB-R8330-1W-L50	InGaN	White	x=0.30	y=0.31	Diffused	2.90	3.10		25.00	50.00

58mm Round LCD Backlight





KWB-C58-P4B	InGaN	Blue	468	470	White	12.00	12.40	10	200.00	350.00
KWB-C58-P4W	InGaN	White	x=0.30	y=0.31	Diffused	12.00	12.40		350.00	550.00

-
1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
 3. Specifications are subject to change without notice.