



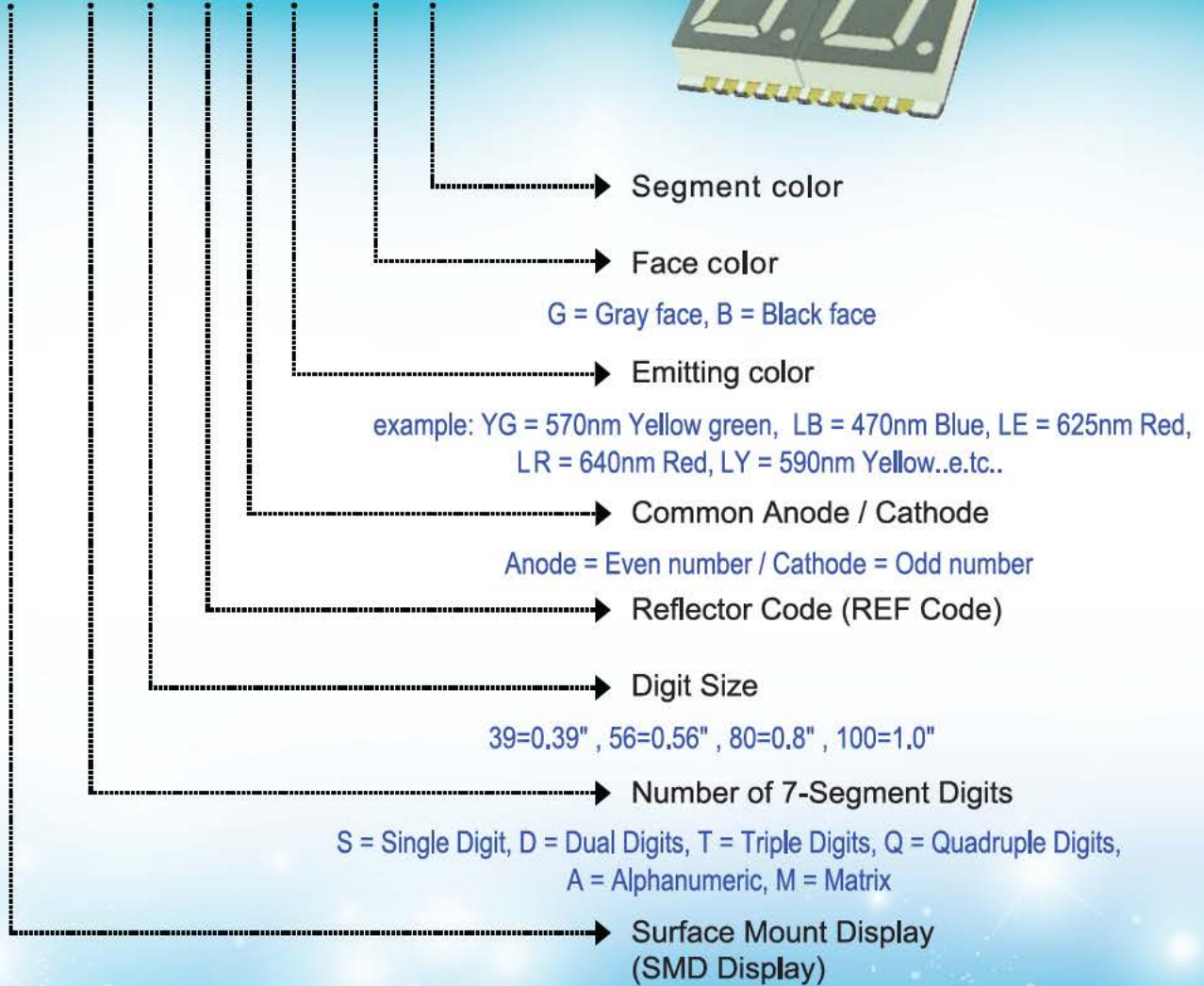
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SMD LED DISPLAY PART NO. SYSTEM

OPS - D 39 1 0 B - G W



RoHS



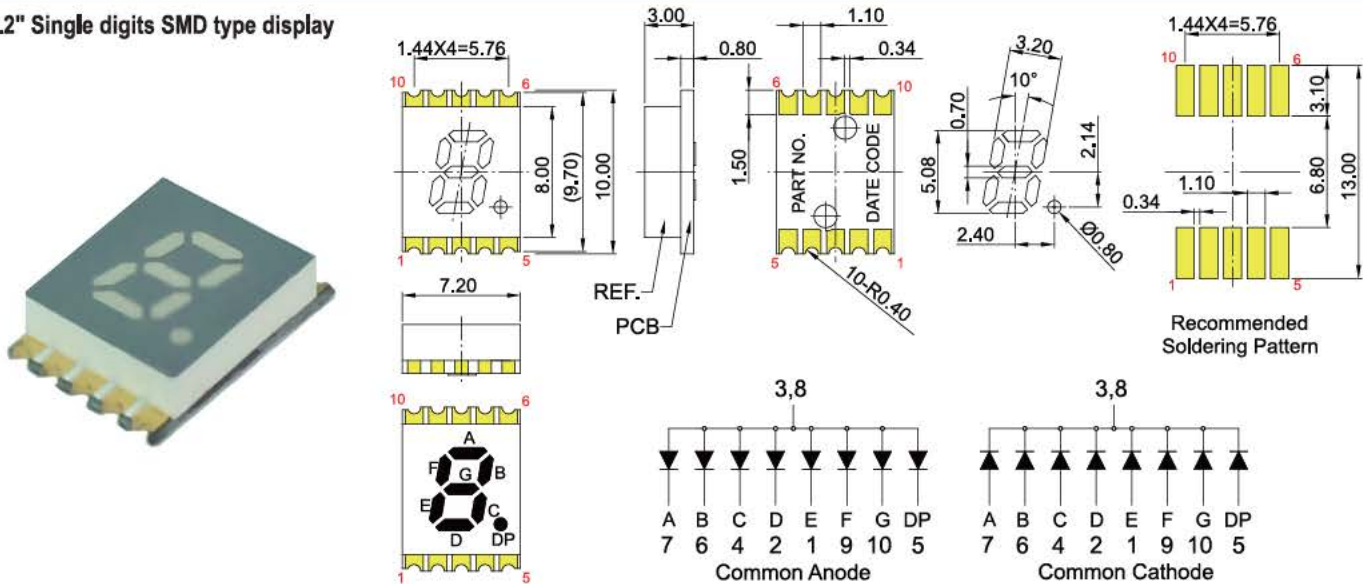
Lead - free





Package Dimension / Internal Circuit

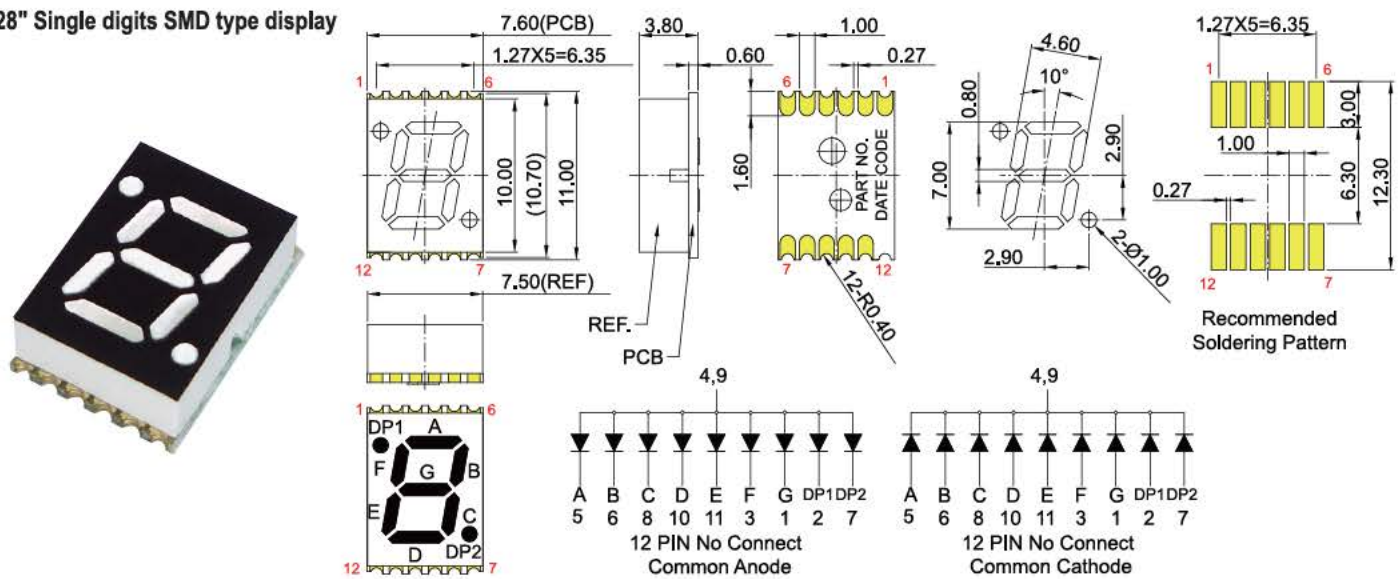
0.2" Single digits SMD type display



Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-S2010LB	OPS-S2011LB	470	InGaN	3.2	20	OPS-S2010LY	OPS-S2011LY	590	AlGaInP	2.0	12
OPS-S2010PG	OPS-S2011PG	525	InGaN	3.2	50	OPS-S2010LA	OPS-S2011LA	610	AlGaInP	2.0	12
OPS-S2010YG	OPS-S2011YG	570	AlGaInP	2.1	6	OPS-S2010LE	OPS-S2011LE	625	AlGaInP	2.0	12
						OPS-S2010LR	OPS-S2011LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.28" Single digits SMD type display

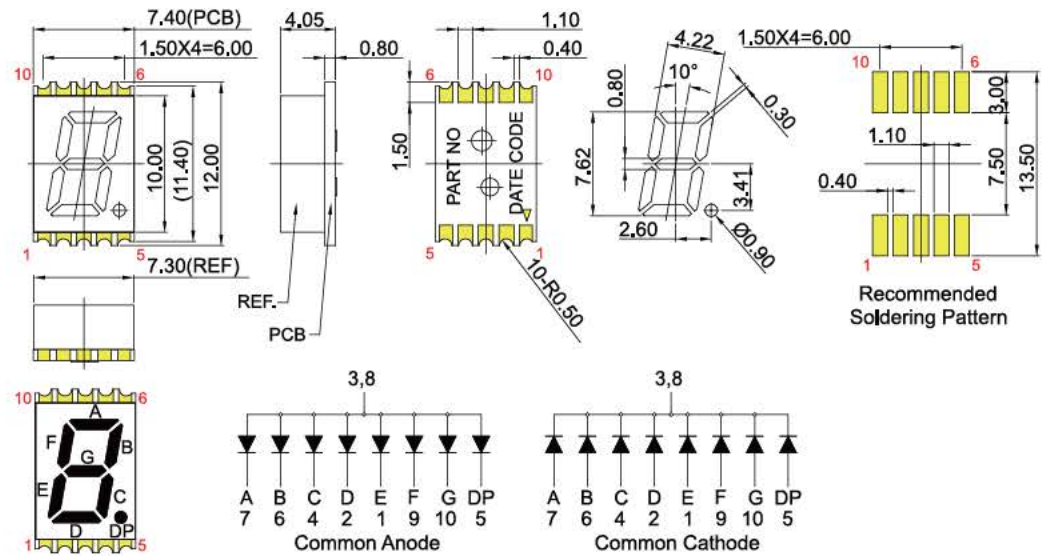
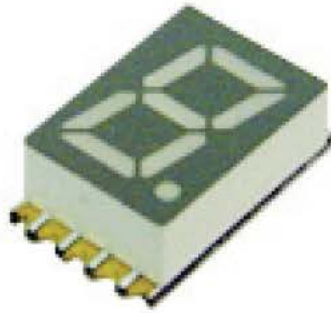


Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-S2812LB	OPS-S2811LB	470	InGaN	3.2	20	OPS-S2812LY	OPS-S2811LY	590	AlGaInP	2.0	10
OPS-S2812PG	OPS-S2811PG	525	InGaN	3.2	50	OPS-S2812LA	OPS-S2811LA	610	AlGaInP	2.0	10
OPS-S2812YG	OPS-S2811YG	570	AlGaInP	2.1	6	OPS-S2812LE	OPS-S2811LE	625	AlGaInP	2.0	10
						OPS-S2812LR	OPS-S2811LR	640	AlGaInP	2.0	2



Package Dimension / Internal Circuit

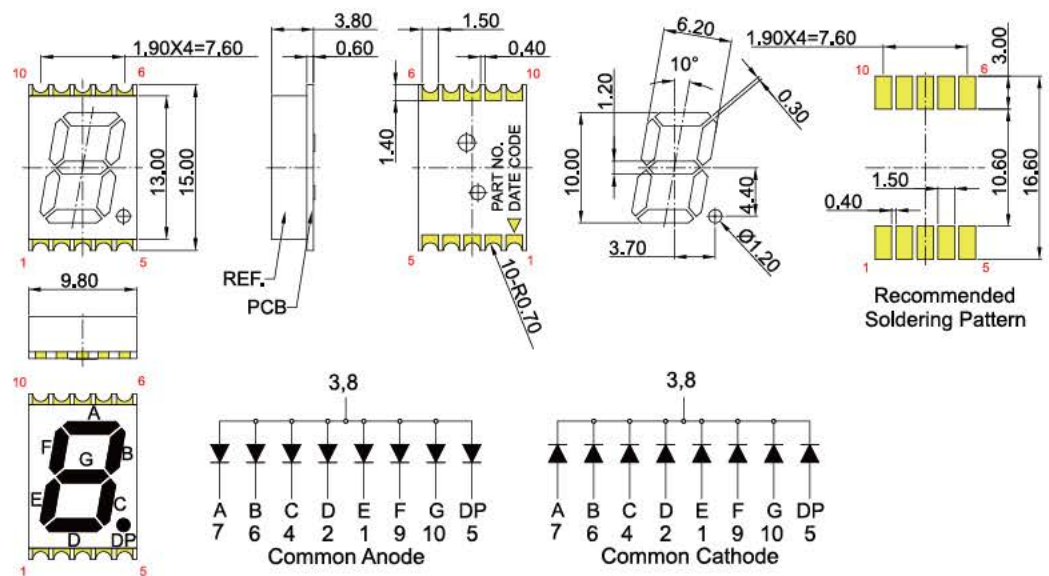
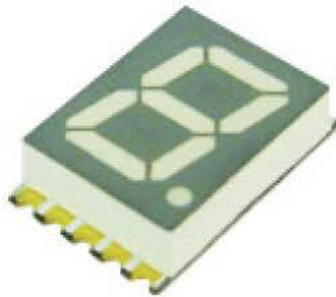
0.3" Single digits SMD type display



Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA		Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA			
Common Anode	Common Cathode		V _F (V) Typ.	I _v (mcd) Typ.	Common Anode	Common Cathode		V _F (V) Typ.	I _v (mcd) Typ.		
OPS-S3010LB	OPS-S3011LB	470	InGaN	3.2	10	OPS-S3010LY	OPS-S3011LY	590	AlGaInP	2.0	8
OPS-S3010PG	OPS-S3011PG	525	InGaN	3.2	30	OPS-S3010LA	OPS-S3011LA	610	AlGaInP	2.0	8
OPS-S3010YG	OPS-S3011YG	570	AlGaInP	2.1	5	OPS-S3010LE	OPS-S3011LE	625	AlGaInP	2.0	8
						OPS-S3010LR	OPS-S3011LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.39" Single digits SMD type display

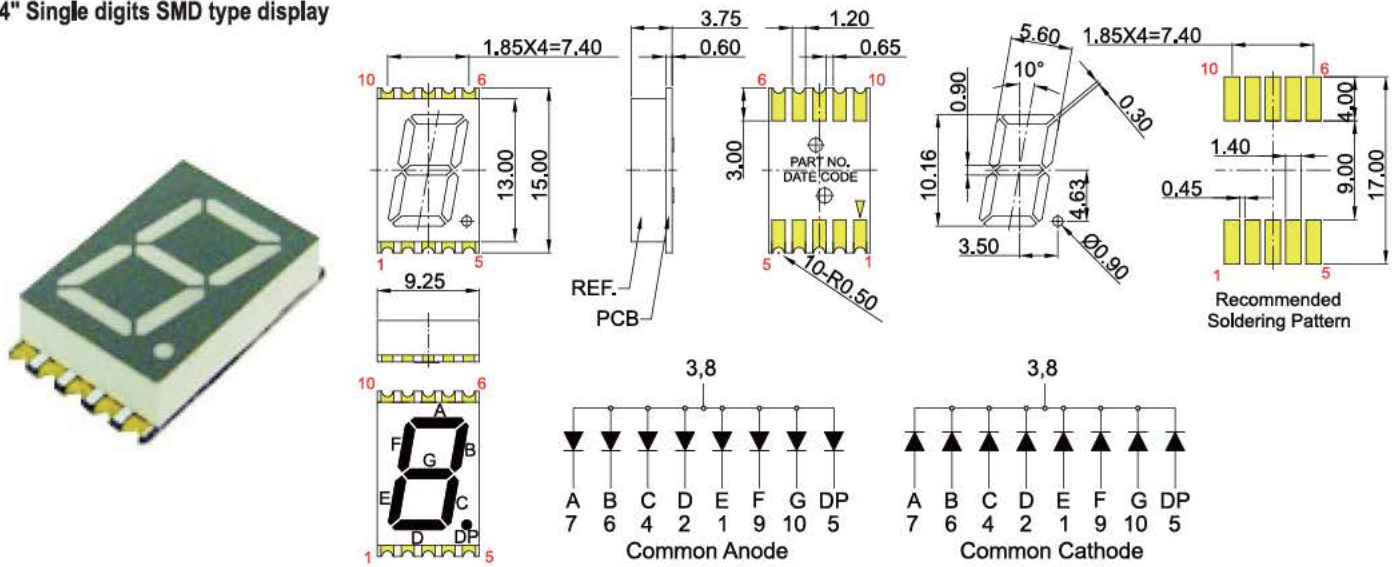


Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA		Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA			
Common Anode	Common Cathode		V _F (V) Typ.	I _v (mcd) Typ.	Common Anode	Common Cathode		V _F (V) Typ.	I _v (mcd) Typ.		
OPS-S3910W	OPS-S3911W	---	InGaN	3.2	100	OPS-S3910LY	OPS-S3911LY	590	AlGaInP	2.0	30
OPS-S3910LB	OPS-S3911LB	470	InGaN	3.2	40	OPS-S3910LA	OPS-S3911LA	610	AlGaInP	2.0	30
OPS-S3910PG	OPS-S3911PG	525	InGaN	3.2	130	OPS-S3910LE	OPS-S3911LE	625	AlGaInP	2.0	30
OPS-S3910YG	OPS-S3911YG	570	AlGaInP	2.1	12	OPS-S3910LR	OPS-S3911LR	640	AlGaInP	2.0	4



Package Dimension / Internal Circuit

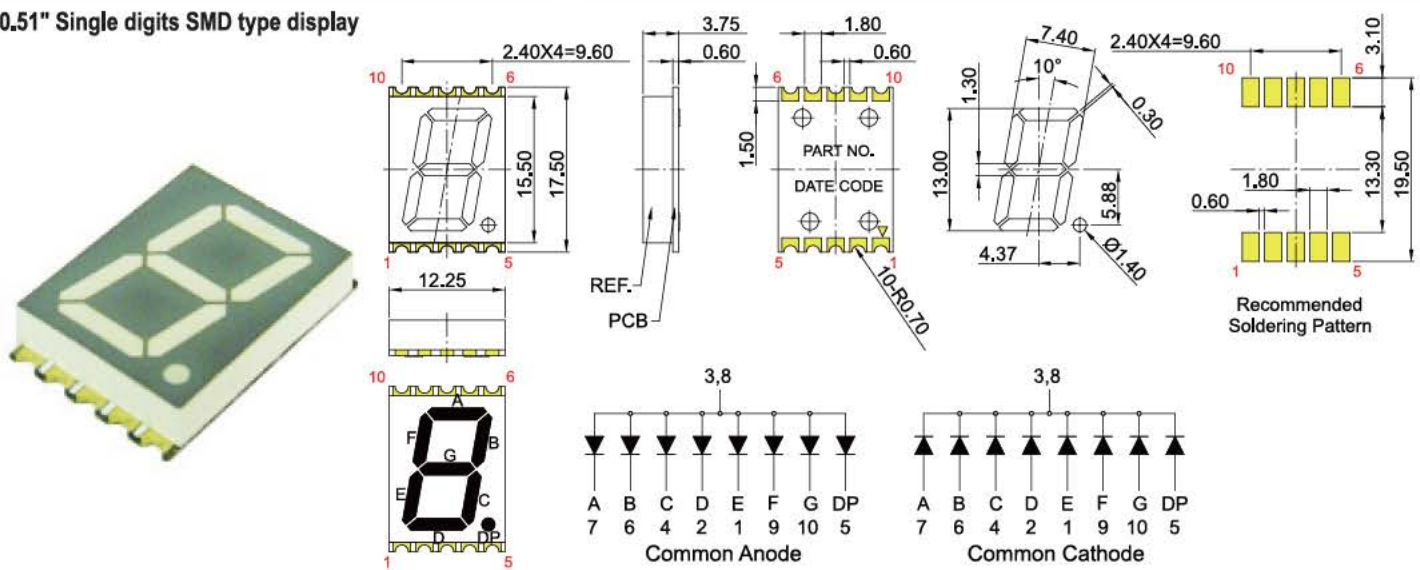
0.4" Single digits SMD type display



Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA		Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA			
Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.		
OPS-S4010W	OPS-S4011W	---	InGaN	3.2	50	OPS-S4010LY	OPS-S4011LY	590	AlGaInP	2.0	20
OPS-S4010LB	OPS-S4011LB	470	InGaN	3.2	20	OPS-S4010LA	OPS-S4011LA	610	AlGaInP	2.0	20
OPS-S4010PG	OPS-S4011PG	525	InGaN	3.2	50	OPS-S4010LE	OPS-S4011LE	625	AlGaInP	2.0	20
OPS-S4010YG	OPS-S4011YG	570	AlGaInP	2.1	7	OPS-S4010LR	OPS-S4011LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.51" Single digits SMD type display

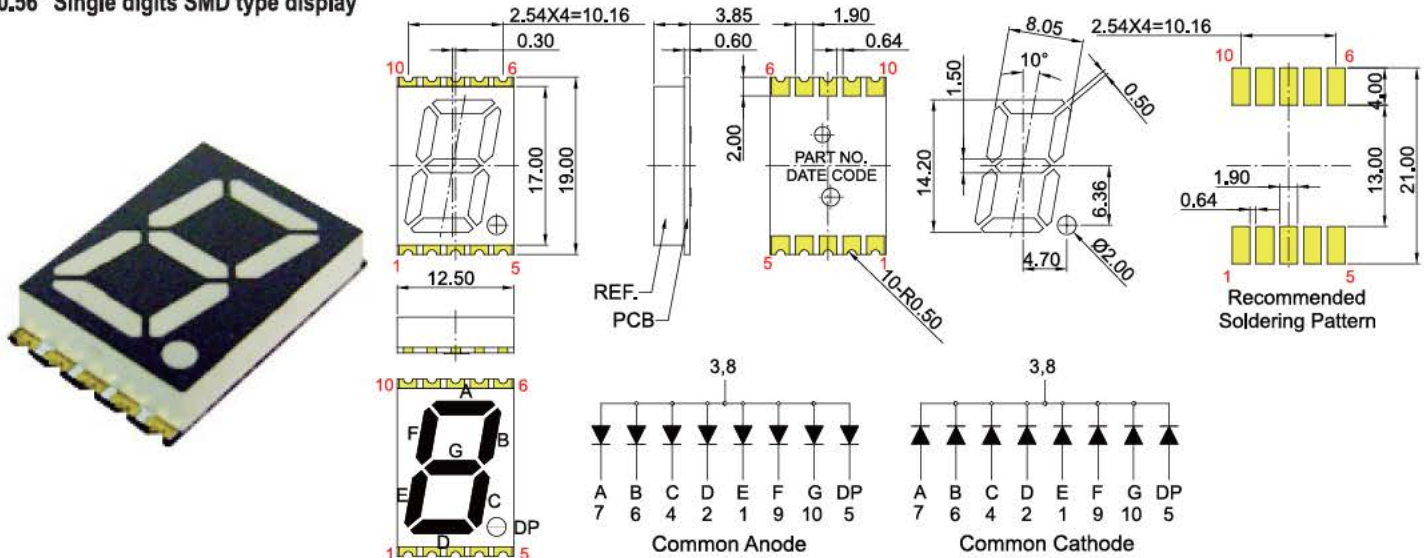


Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA		Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA			
Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.		
OPS-S5110W	OPS-S5111W	---	InGaN	3.2	120	OPS-S5110LY	OPS-S5111LY	590	AlGaInP	2.0	30
OPS-S5110LB	OPS-S5111LB	470	InGaN	3.2	40	OPS-S5110LA	OPS-S5111LA	610	AlGaInP	2.0	30
OPS-S5110PG	OPS-S5111PG	525	InGaN	3.2	170	OPS-S5110LE	OPS-S5111LE	625	AlGaInP	2.0	30
OPS-S5110YG	OPS-S5111YG	570	AlGaInP	2.1	12	OPS-S5110LR	OPS-S5111LR	640	AlGaInP	2.0	6



Package Dimension / Internal Circuit

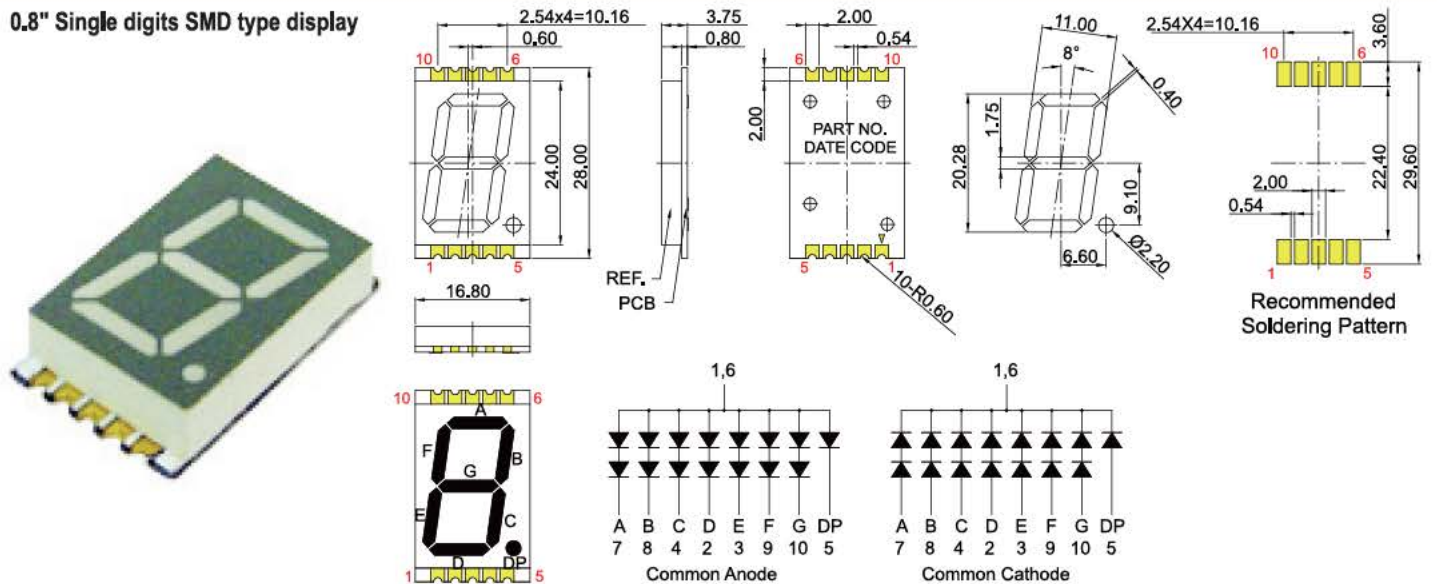
0.56" Single digits SMD type display



Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA		Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA			
Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.		
OPS-S5620W	OPS-S5621W	---	InGaN	3.2	65	OPS-S5620LY	OPS-S5621LY	590	AlGaInP	2.0	25
OPS-S5620LB	OPS-S5621LB	470	InGaN	3.2	30	OPS-S5620LA	OPS-S5621LA	610	AlGaInP	2.0	25
OPS-S5620PG	OPS-S5621PG	525	InGaN	3.2	90	OPS-S5620LE	OPS-S5621LE	625	AlGaInP	2.0	25
OPS-S5620YG	OPS-S5621YG	570	AlGaInP	2.1	10	OPS-S5620LR	OPS-S5621LR	640	AlGaInP	2.0	4

Package Dimension / Internal Circuit

0.8" Single digits SMD type display

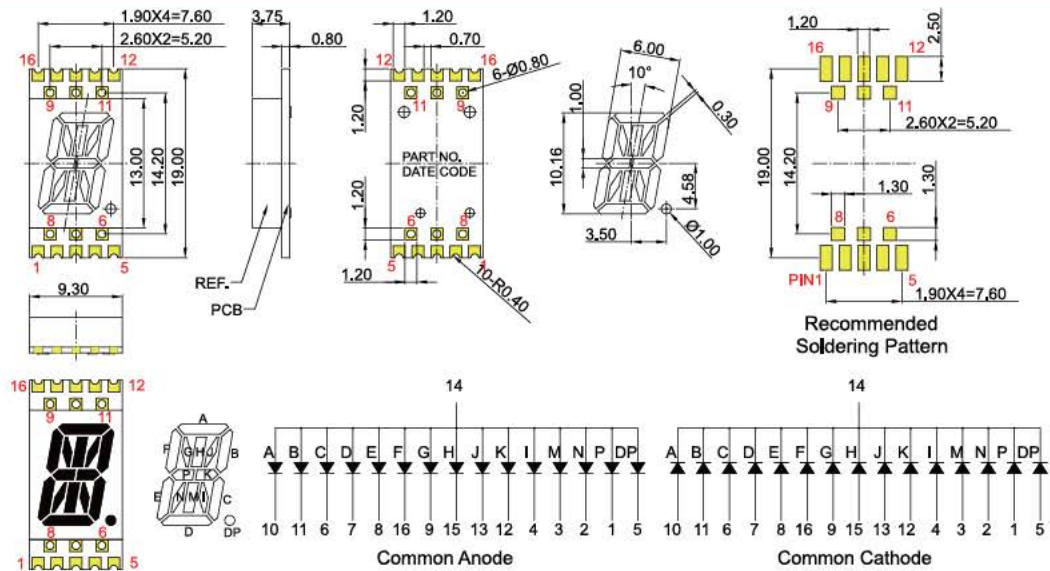
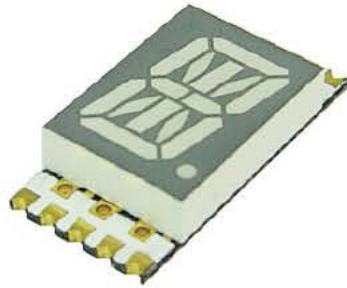


Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA		Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA			
Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.		
OPS-S8010W	OPS-S8011W	---	InGaN	3.2	150	OPS-S8010LY	OPS-S8011LY	590	AlGaInP	2.0	30
OPS-S8010LB	OPS-S8011LB	470	InGaN	3.2	50	OPS-S8010LA	OPS-S8011LA	610	AlGaInP	2.0	30
OPS-S8010PG	OPS-S8011PG	525	InGaN	3.2	210	OPS-S8010LE	OPS-S8011LE	625	AlGaInP	2.0	30
OPS-S8010YG	OPS-S8011YG	570	AlGaInP	2.1	15	OPS-S8010LR	OPS-S8011LR	640	AlGaInP	2.0	6



Package Dimension / Internal Circuit

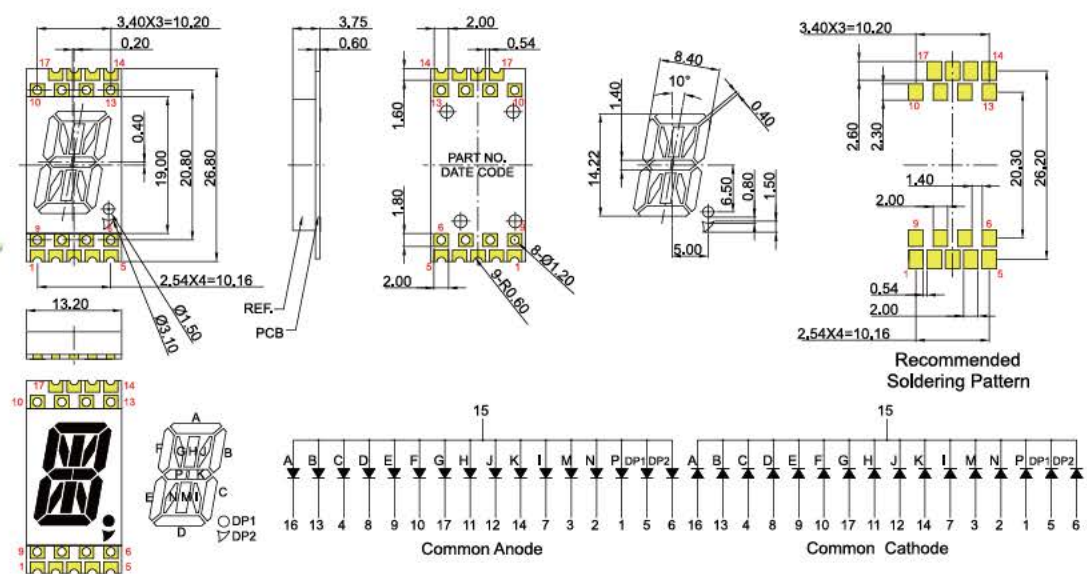
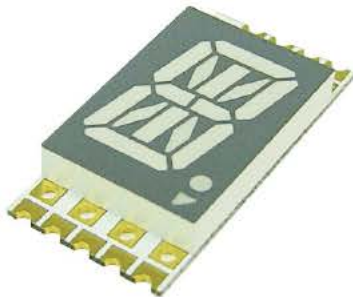
0.4" Alphanumeric single digits
SMD type display



Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λ_d @ If = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λ_d @ If = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-AS4020LB	OPS-AS4021LB	470	InGaN	3.2	20	OPS-AS4020LY	OPS-AS4021LY	590	AlGaInP	2.0	20
OPS-AS4020PG	OPS-AS4021PG	525	InGaN	3.2	50	OPS-AS4020LA	OPS-AS4021LA	610	AlGaInP	2.0	20
OPS-AS4020YG	OPS-AS4021YG	570	AlGaInP	2.1	7	OPS-AS4020LE	OPS-AS4021LE	625	AlGaInP	2.0	20
						OPS-AS4020LR	OPS-AS4021LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.56" Alphanumeric single digits
SMD type display

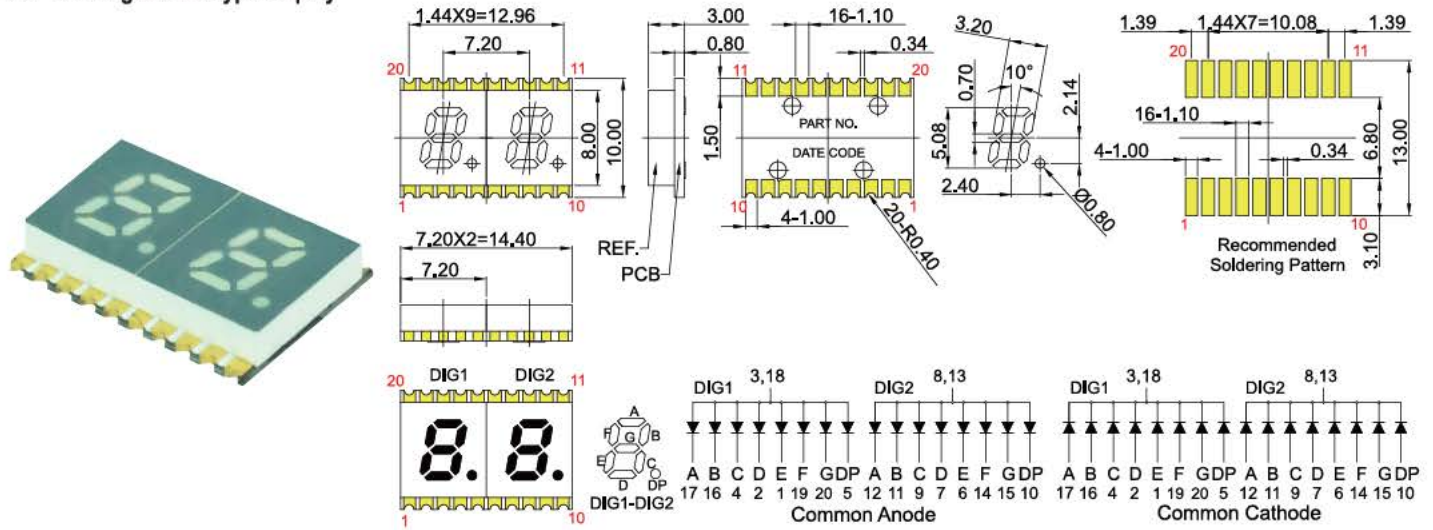


Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λ_d @ If = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λ_d @ If = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-AS5640LB	OPS-AS5641LB	470	InGaN	3.2	30	OPS-AS5640LY	OPS-AS5641LY	590	AlGaInP	2.0	25
OPS-AS5640PG	OPS-AS5641PG	525	InGaN	3.2	90	OPS-AS5640LA	OPS-AS5641LA	610	AlGaInP	2.0	25
OPS-AS5640YG	OPS-AS5641YG	570	AlGaInP	2.1	10	OPS-AS5640LE	OPS-AS5641LE	625	AlGaInP	2.0	25
						OPS-AS5640LR	OPS-AS5641LR	640	AlGaInP	2.0	4



Package Dimension / Internal Circuit

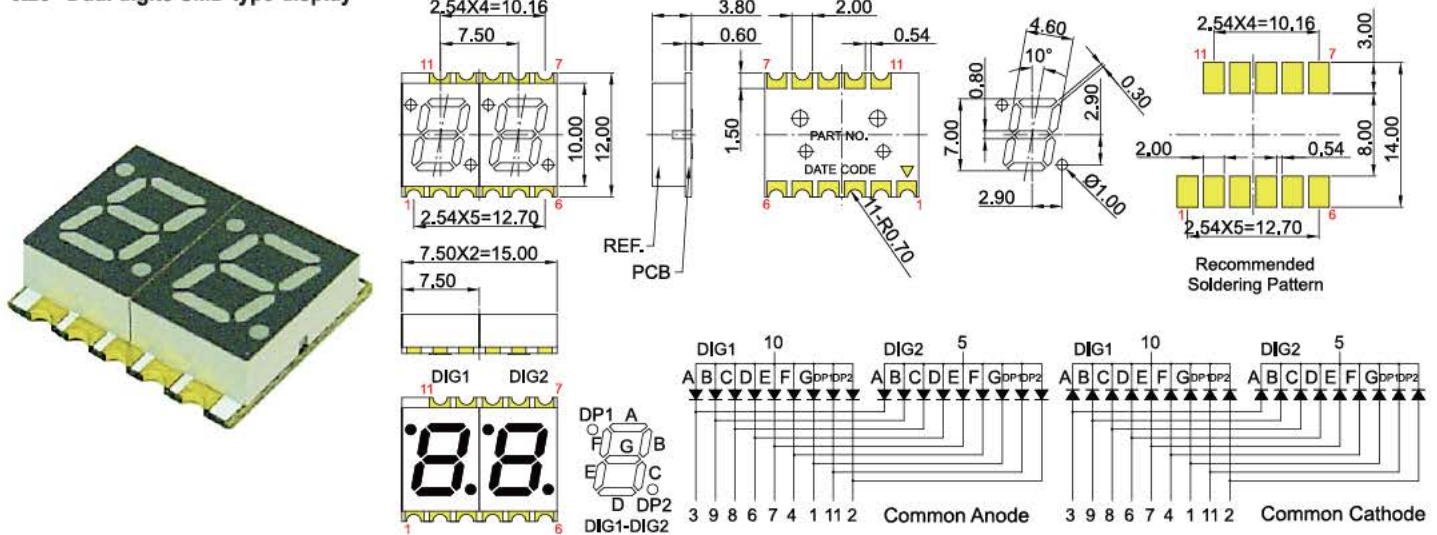
0.2" Dual digits SMD type display



Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-D2010LB	OPS-D2011LB	470	InGaN	3.2	20	OPS-D2010LY	OPS-D2011LY	590	AlGaInP	2.0	12
OPS-D2010PG	OPS-D2011PG	525	InGaN	3.2	50	OPS-D2010LA	OPS-D2011LA	610	AlGaInP	2.0	12
OPS-D2010YG	OPS-D2011YG	570	AlGaInP	2.1	6	OPS-D2010LE	OPS-D2011LE	625	AlGaInP	2.0	12
						OPS-D2010LR	OPS-D2011LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.28" Dual digits SMD type display



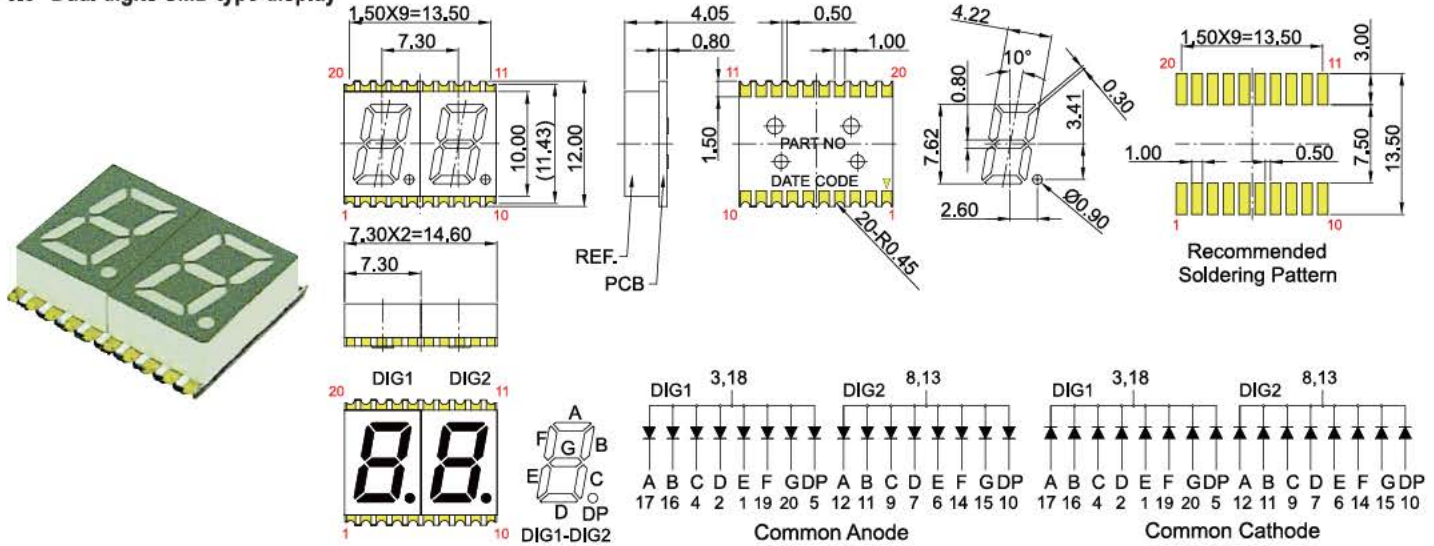
Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-D2814LB	OPS-D2813LB	470	InGaN	3.2	20	OPS-D2814LY	OPS-D2813LY	590	AlGaInP	2.0	10
OPS-D2814PG	OPS-D2813PG	525	InGaN	3.2	50	OPS-D2814LA	OPS-D2813LA	610	AlGaInP	2.0	10
OPS-D2814YG	OPS-D2813YG	570	AlGaInP	2.1	6	OPS-D2814LE	OPS-D2813LE	625	AlGaInP	2.0	10
						OPS-D2814LR	OPS-D2813LR	640	AlGaInP	2.0	2





Package Dimension / Internal Circuit

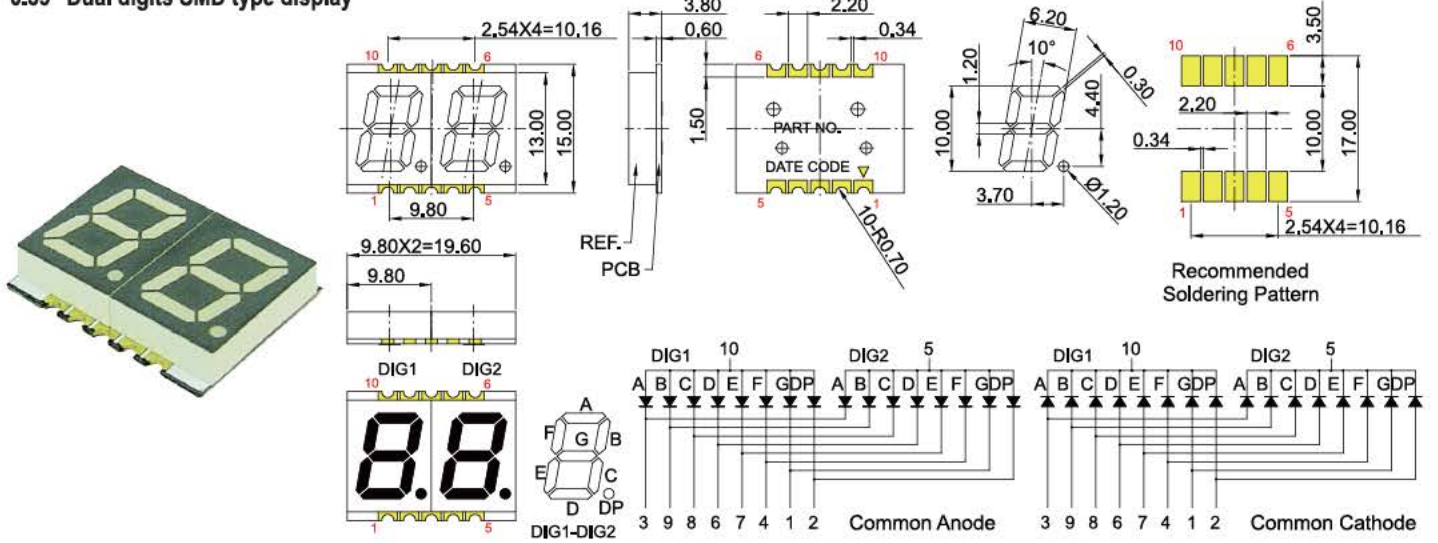
0.3" Dual digits SMD type display



Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-D3010LB	OPS-D3011LB	470	InGaN	3.2	10	OPS-D3010LY	OPS-D3011LY	590	AlGaInP	2.0	8
OPS-D3010PG	OPS-D3011PG	525	InGaN	3.2	30	OPS-D3010LA	OPS-D3011LA	610	AlGaInP	2.0	8
OPS-D3010YG	OPS-D3011YG	570	AlGaInP	2.1	5	OPS-D3010LE	OPS-D3011LE	625	AlGaInP	2.0	8
						OPS-D3010LR	OPS-D3011LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.39" Dual digits SMD type display

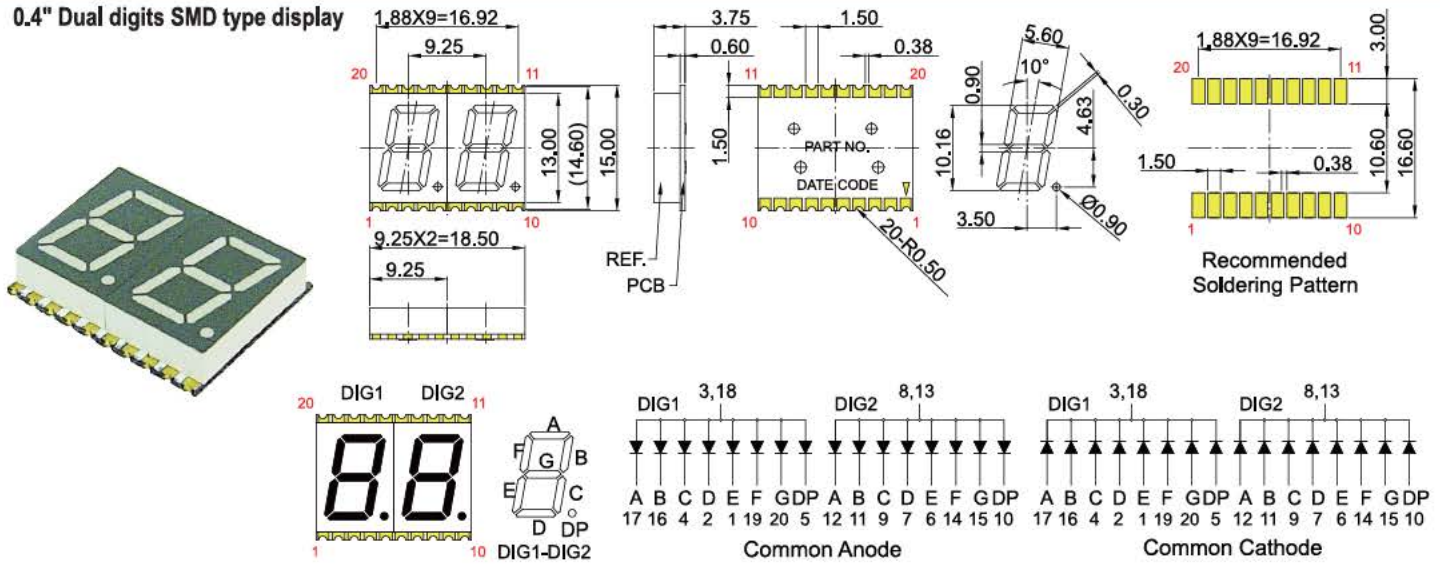


Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-D3910W	OPS-D3911W	---	InGaN	3.2	100	OPS-D3910LY	OPS-D3911LY	590	AlGaInP	2.0	30
OPS-D3910LB	OPS-D3911LB	470	InGaN	3.2	40	OPS-D3910LA	OPS-D3911LA	610	AlGaInP	2.0	30
OPS-D3910PG	OPS-D3911PG	525	InGaN	3.2	130	OPS-D3910LE	OPS-D3911LE	625	AlGaInP	2.0	30
OPS-D3910YG	OPS-D3911YG	570	AlGaInP	2.1	12	OPS-D3910LR	OPS-D3911LR	640	AlGaInP	2.0	4



Package Dimension / Internal Circuit

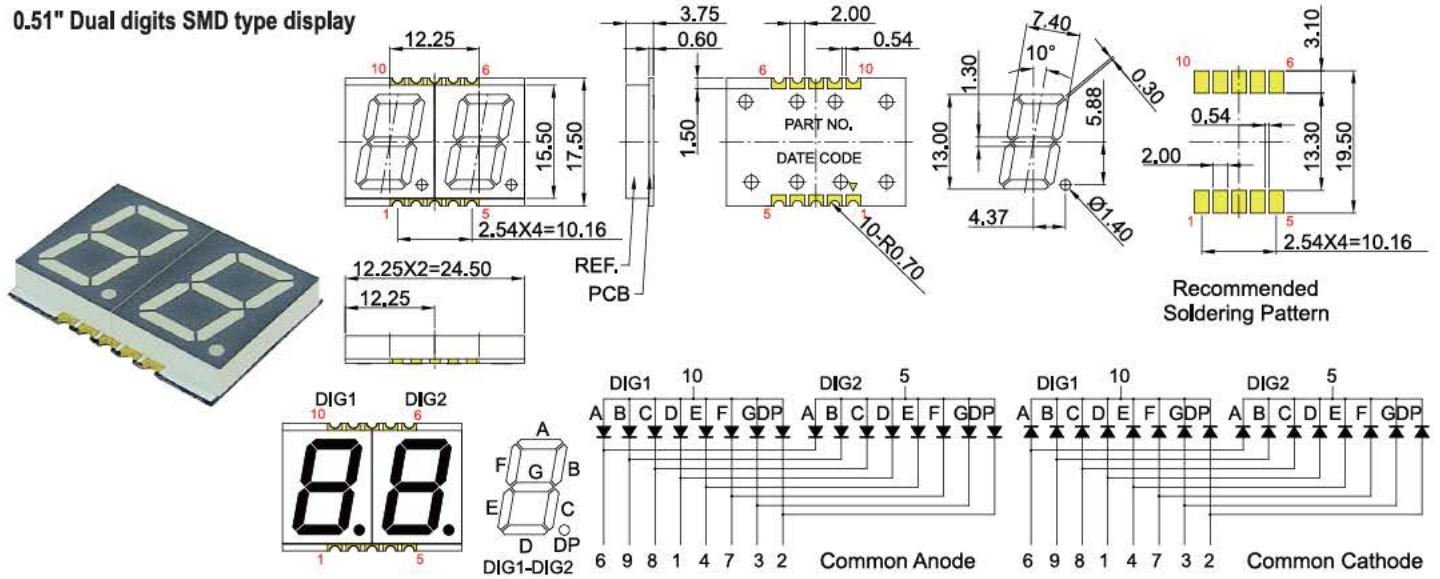
0.4" Dual digits SMD type display



Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	Ad @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	Ad @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-D4012W	OPS-D4011W	---	InGaN	3.2	50	OPS-D4012LY	OPS-D4011LY	590	AlGaInP	2.0	20
OPS-D4012LB	OPS-D4011LB	470	InGaN	3.2	20	OPS-D4012LA	OPS-D4011LA	610	AlGaInP	2.0	20
OPS-D4012PG	OPS-D4011PG	525	InGaN	3.2	50	OPS-D4012LE	OPS-D4011LE	625	AlGaInP	2.0	20
OPS-D4012YG	OPS-D4011YG	570	AlGaInP	2.1	7	OPS-D4012LR	OPS-D4011LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.51" Dual digits SMD type display

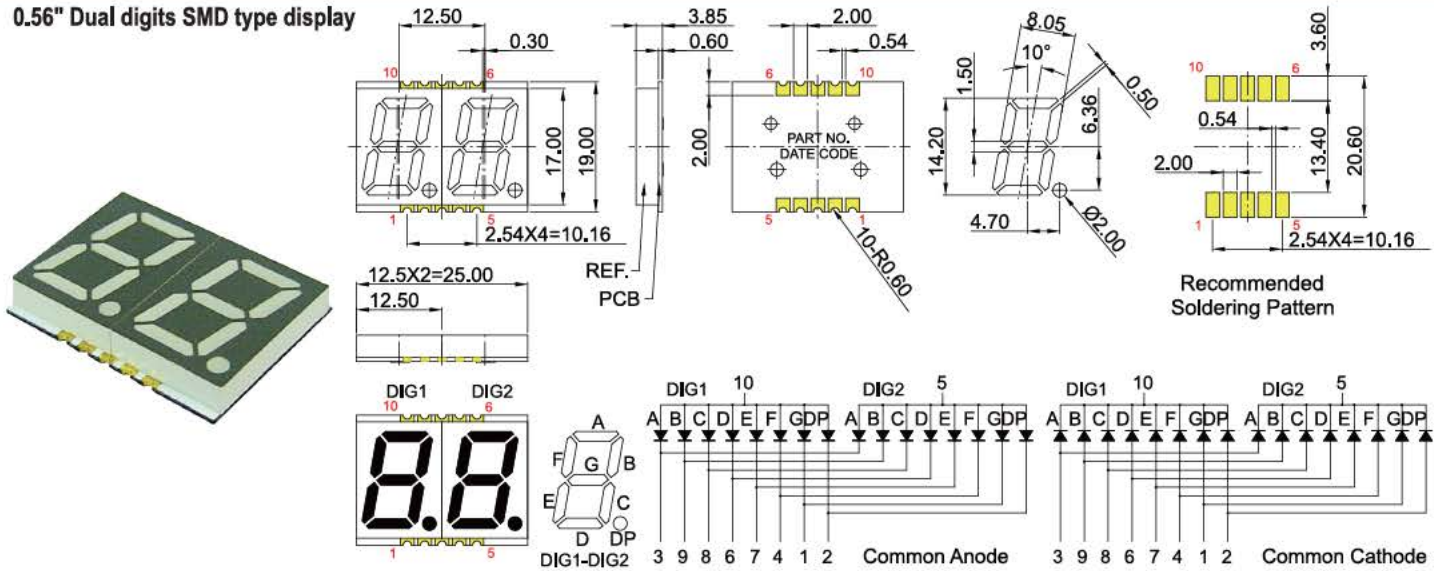


Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	Ad @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	Ad @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-D5110W	OPS-D5111W	---	InGaN	3.2	120	OPS-D5110LY	OPS-D5111LY	590	AlGaInP	2.0	30
OPS-D5110LB	OPS-D5111LB	470	InGaN	3.2	40	OPS-D5110LA	OPS-D5111LA	610	AlGaInP	2.0	30
OPS-D5110PG	OPS-D5111PG	525	InGaN	3.2	170	OPS-D5110LE	OPS-D5111LE	625	AlGaInP	2.0	30
OPS-D5110YG	OPS-D5111YG	570	AlGaInP	2.1	12	OPS-D5110LR	OPS-D5111LR	640	AlGaInP	2.0	6



Package Dimension / Internal Circuit

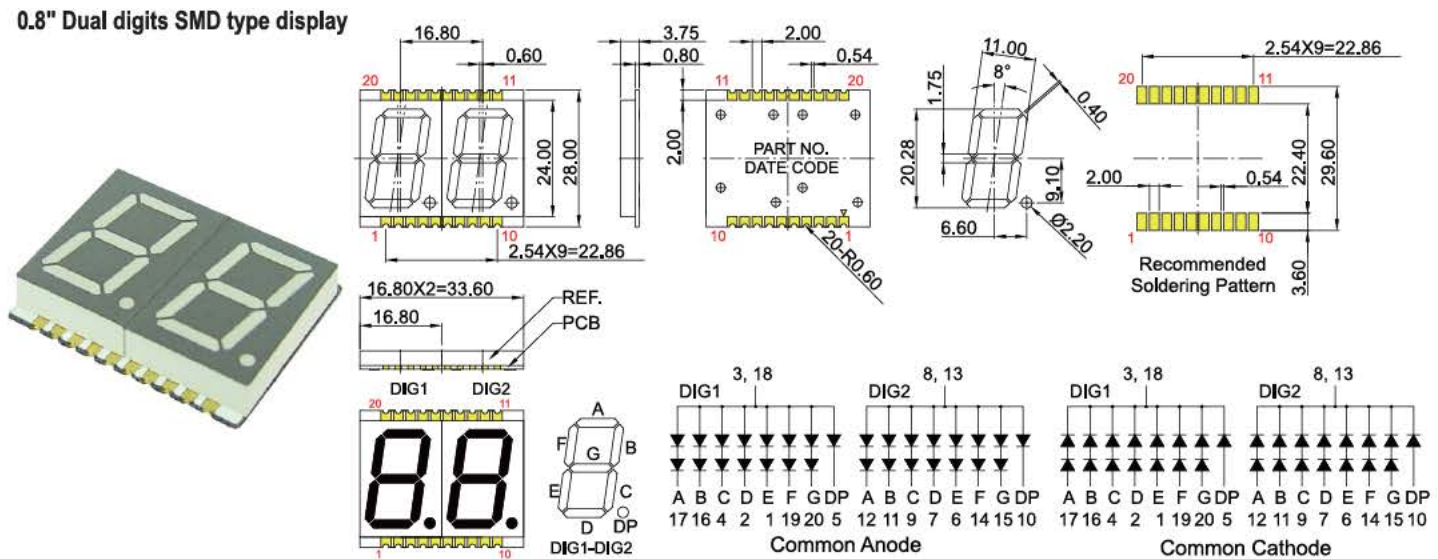
0.56" Dual digits SMD type display



Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	Ad @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	Ad @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-D5620W	OPS-D5621W	---	InGaN	3.2	65	OPS-D5620LY	OPS-D5621LY	590	AlGaInP	2.0	25
OPS-D5620LB	OPS-D5621LB	470	InGaN	3.2	30	OPS-D5620LA	OPS-D5621LA	610	AlGaInP	2.0	25
OPS-D5620PG	OPS-D5621PG	525	InGaN	3.2	90	OPS-D5620LE	OPS-D5621LE	625	AlGaInP	2.0	25
OPS-D5620YG	OPS-D5621YG	570	AlGaInP	2.1	10	OPS-D5620LR	OPS-D5621LR	640	AlGaInP	2.0	4

Package Dimension / Internal Circuit

0.8" Dual digits SMD type display

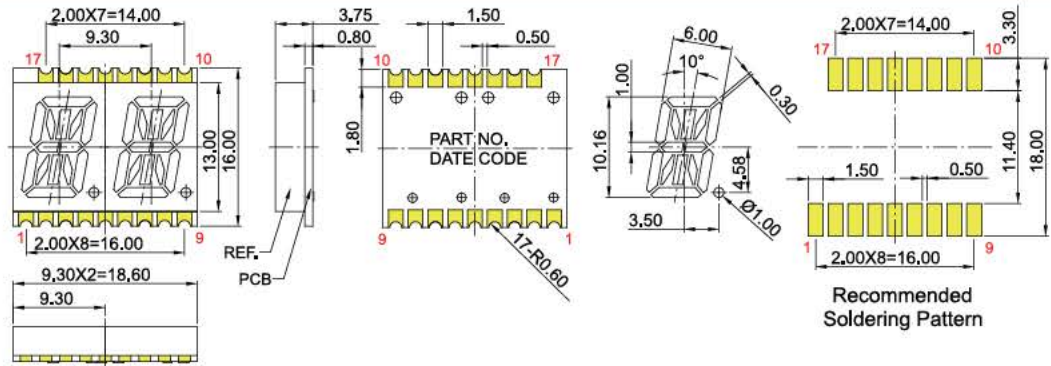


Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	Ad @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	Ad @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-D8010W	OPS-D8011W	---	InGaN	3.2	150	OPS-D8010LY	OPS-D8011LY	590	AlGaInP	2.0	30
OPS-D8010LB	OPS-D8011LB	470	InGaN	3.2	50	OPS-D8010LA	OPS-D8011LA	610	AlGaInP	2.0	30
OPS-D8010PG	OPS-D8011PG	525	InGaN	3.2	210	OPS-D8010LE	OPS-D8011LE	625	AlGaInP	2.0	30
OPS-D8010YG	OPS-D8011YG	570	AlGaInP	2.1	15	OPS-D8010LR	OPS-D8011LR	640	AlGaInP	2.0	6

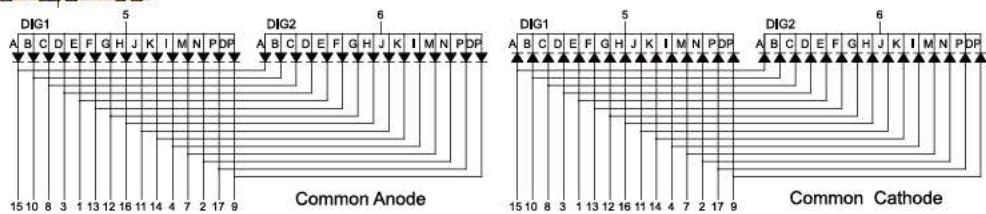
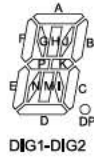
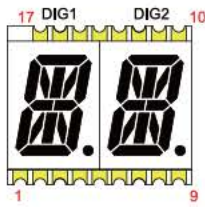


Package Dimension / Internal Circuit

0.4" Dual alphanumeric digits SMD type display



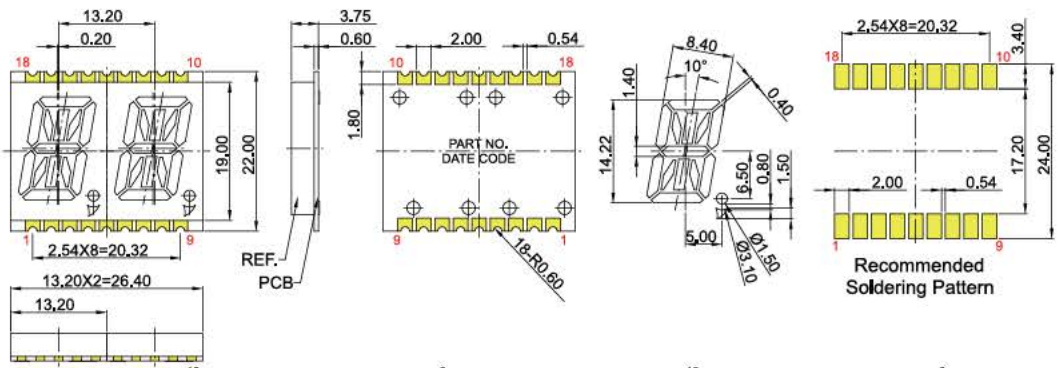
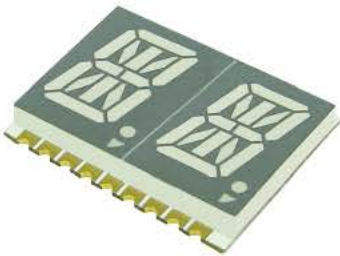
Recommended Soldering Pattern



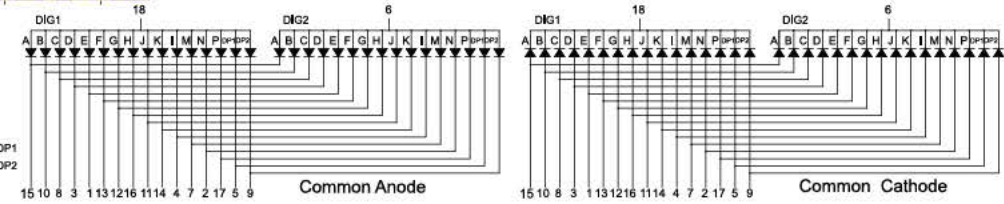
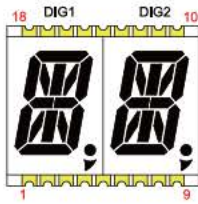
Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-AD4020LB	OPS-AD4021LB	470	InGaN	3.2	20	OPS-AD4020LY	OPS-AD4021LY	590	AlGaInP	2.0	20
OPS-AD4020PG	OPS-AD4021PG	525	InGaN	3.2	50	OPS-AD4020LA	OPS-AD4021LA	610	AlGaInP	2.0	20
OPS-AD4020YG	OPS-AD4021YG	570	AlGaInP	2.1	7	OPS-AD4020LE	OPS-AD4021LE	625	AlGaInP	2.0	20
						OPS-AD4020LR	OPS-AD4021LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.56" Dual alphanumeric digits SMD type display



Recommending Soldering Pattern

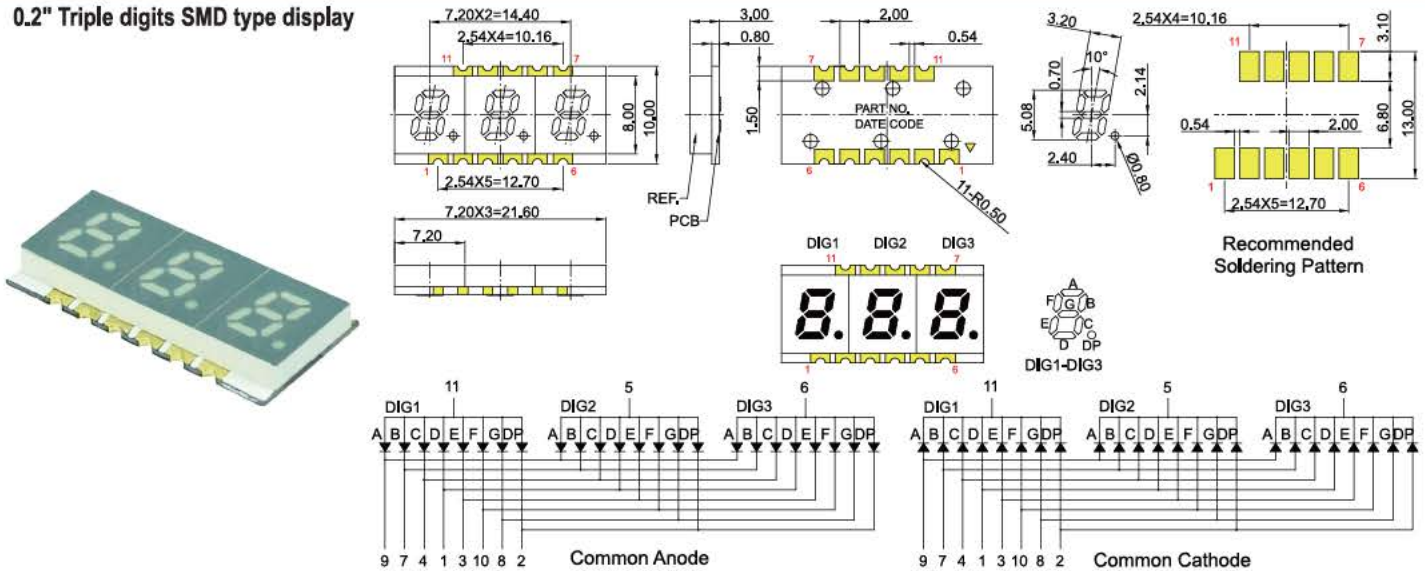


Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-AD5640LB	OPS-AD5641LB	470	InGaN	3.2	30	OPS-AD5640LY	OPS-AD5641LY	590	AlGaInP	2.0	25
OPS-AD5640PG	OPS-AD5641PG	525	InGaN	3.2	90	OPS-AD5640LA	OPS-AD5641LA	610	AlGaInP	2.0	25
OPS-AD5640YG	OPS-AD5641YG	570	AlGaInP	2.1	10	OPS-AD5640LE	OPS-AD5641LE	625	AlGaInP	2.0	25
						OPS-AD5640LR	OPS-AD5641LR	640	AlGaInP	2.0	4



Package Dimension / Internal Circuit

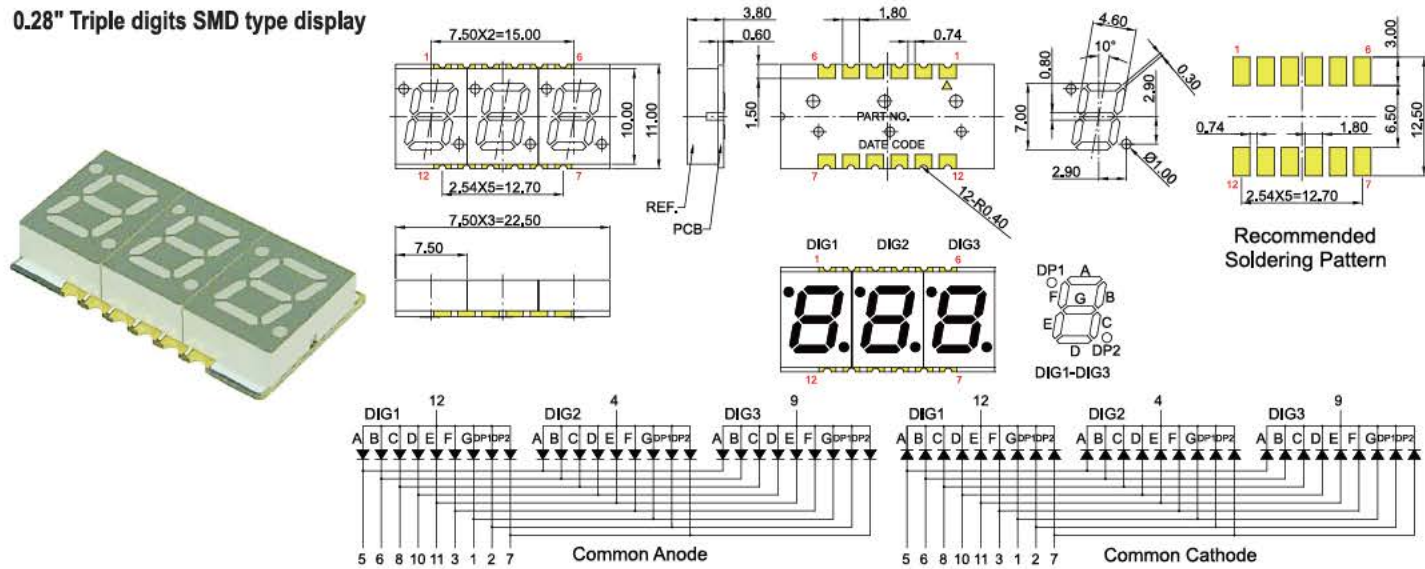
0.2" Triple digits SMD type display



Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-T2010LB	OPS-T2011LB	470	InGaN	3.2	20	OPS-T2010LY	OPS-T2011LY	590	AlGaInP	2.0	12
OPS-T2010PG	OPS-T2011PG	525	InGaN	3.2	50	OPS-T2010LA	OPS-T2011LA	610	AlGaInP	2.0	12
OPS-T2010YG	OPS-T2011YG	570	AlGaInP	2.1	6	OPS-T2010LE	OPS-T2011LE	625	AlGaInP	2.0	12
						OPS-T2010LR	OPS-T2011LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.28" Triple digits SMD type display

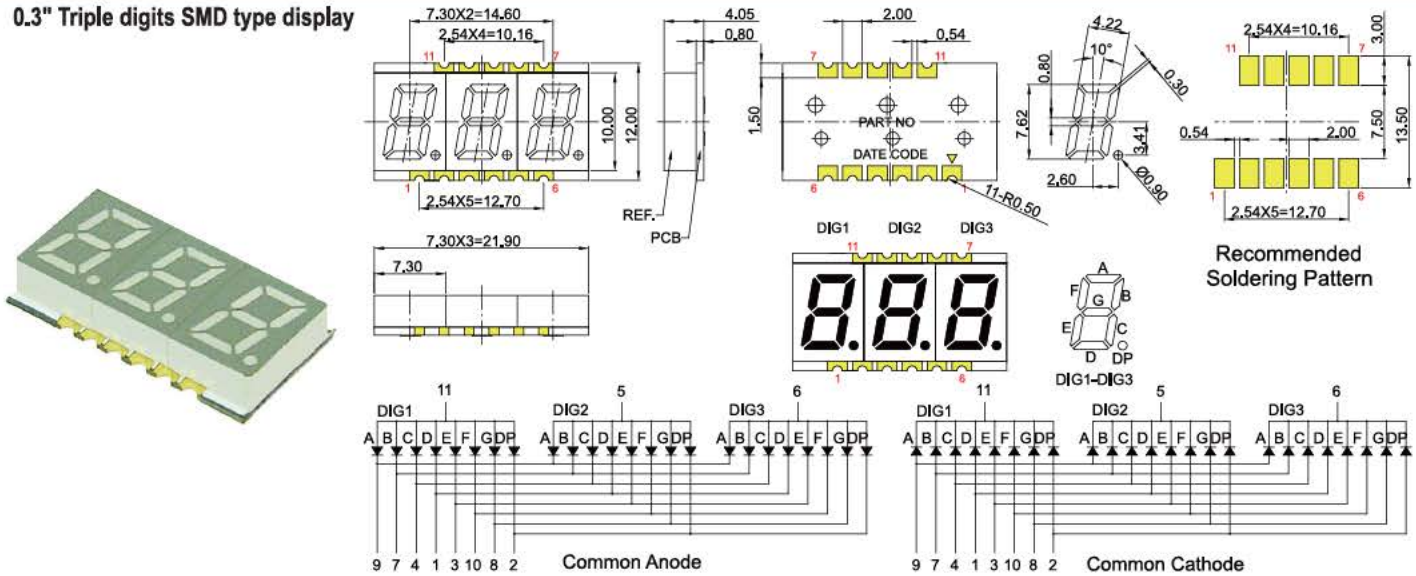


Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-T2812LB	OPS-T2811LB	470	InGaN	3.2	20	OPS-T2812LY	OPS-T2811LY	590	AlGaInP	2.0	10
OPS-T2812PG	OPS-T2811PG	525	InGaN	3.2	50	OPS-T2812LA	OPS-T2811LA	610	AlGaInP	2.0	10
OPS-T2812YG	OPS-T2811YG	570	AlGaInP	2.1	6	OPS-T2812LE	OPS-T2811LE	625	AlGaInP	2.0	10
						OPS-T2812LR	OPS-T2811LR	640	AlGaInP	2.0	2



Package Dimension / Internal Circuit

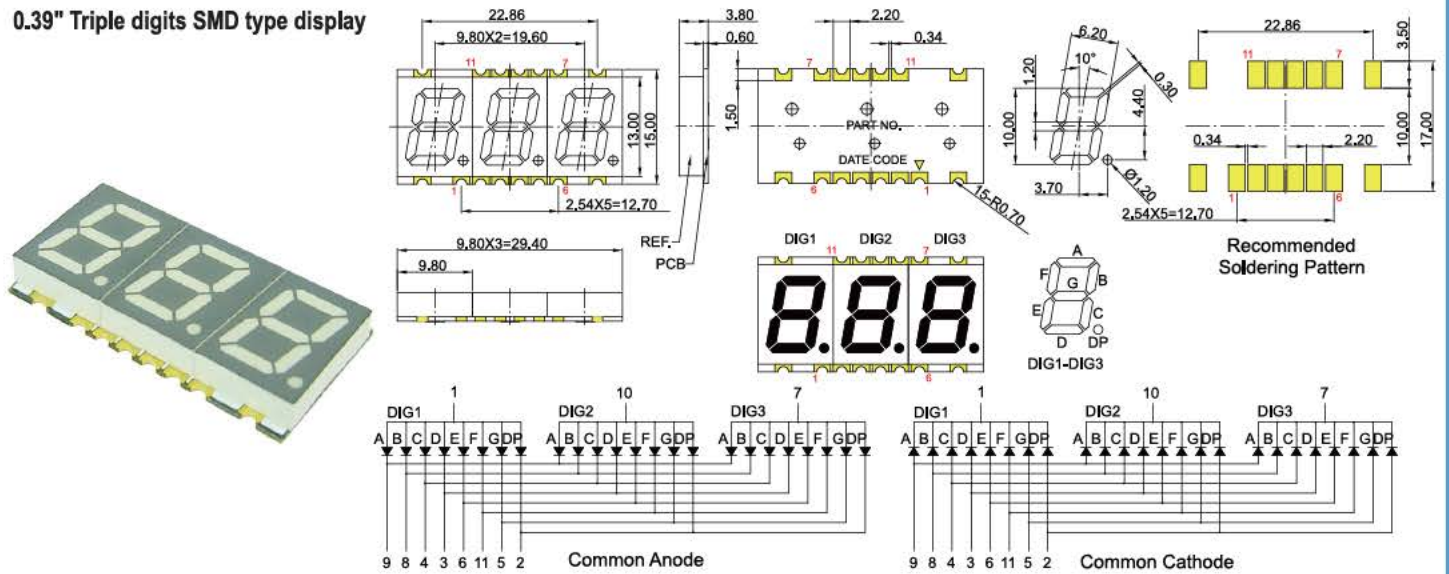
0.3" Triple digits SMD type display



Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-T3010LB	OPS-T3011LB	470	InGaN	3.2	10	OPS-T3010LY	OPS-T3011LY	590	AlGaInP	2.0	8
OPS-T3010PG	OPS-T3011PG	525	InGaN	3.2	30	OPS-T3010LA	OPS-T3011LA	610	AlGaInP	2.0	8
OPS-T3010YG	OPS-T3011YG	570	AlGaInP	2.1	5	OPS-T3010LE	OPS-T3011LE	625	AlGaInP	2.0	8
						OPS-T3010LR	OPS-T3011LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.39" Triple digits SMD type display

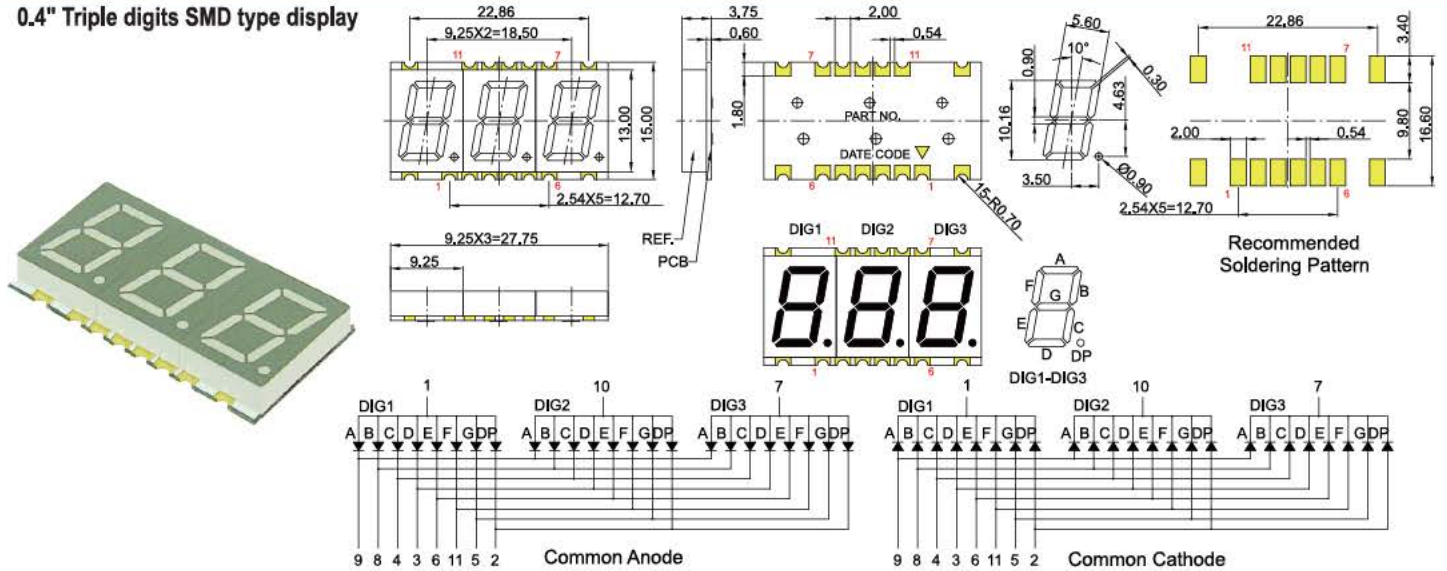


Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-T3910W	OPS-T3911W	---	InGaN	3.2	100	OPS-T3910LY	OPS-T3911LY	590	AlGaInP	2.0	30
OPS-T3910LB	OPS-T3911LB	470	InGaN	3.2	40	OPS-T3910LA	OPS-T3911LA	610	AlGaInP	2.0	30
OPS-T3910PG	OPS-T3911PG	525	InGaN	3.2	130	OPS-T3910LE	OPS-T3911LE	625	AlGaInP	2.0	30
OPS-T3910YG	OPS-T3911YG	570	AlGaInP	2.1	12	OPS-T3910LR	OPS-T3911LR	640	AlGaInP	2.0	4



Package Dimension / Internal Circuit

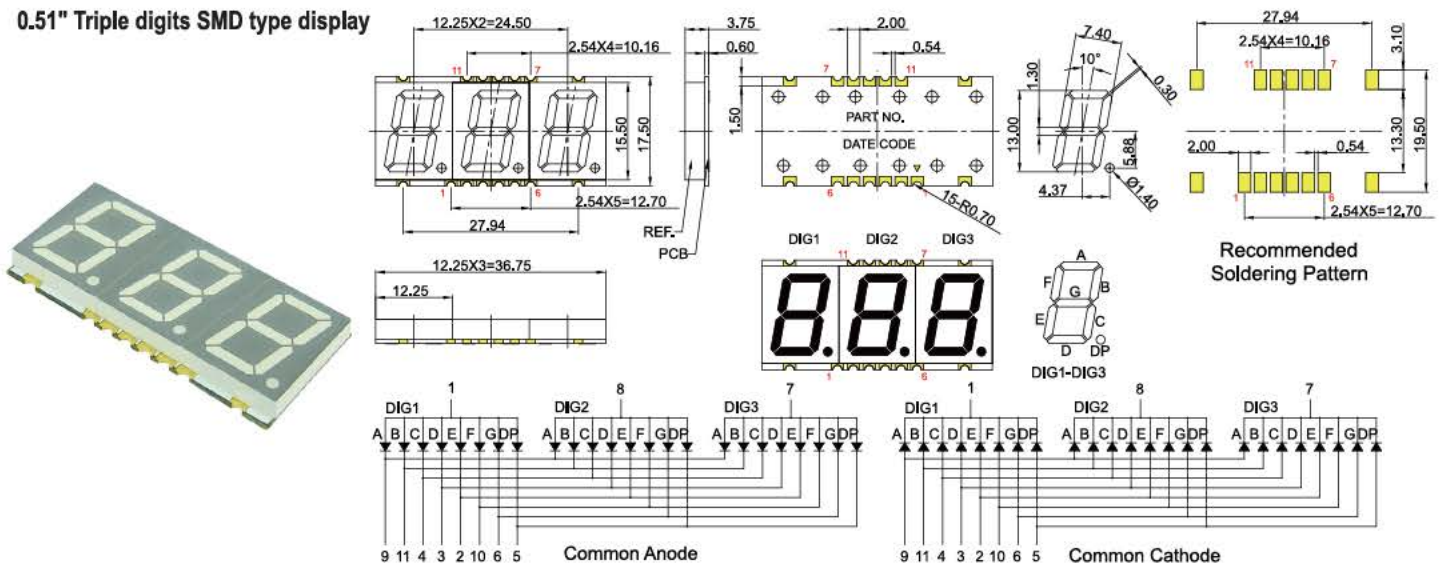
0.4" Triple digits SMD type display



Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-T4010W	OPS-T4011W	---	InGaN	3.2	50	OPS-T4010LY	OPS-T4011LY	590	AlGaInP	2.0	20
OPS-T4010LB	OPS-T4011LB	470	InGaN	3.2	20	OPS-T4010LA	OPS-T4011LA	610	AlGaInP	2.0	20
OPS-T4010PG	OPS-T4011PG	525	InGaN	3.2	50	OPS-T4010LE	OPS-T4011LE	625	AlGaInP	2.0	20
OPS-T4010YG	OPS-T4011YG	570	AlGaInP	2.1	7	OPS-T4010LR	OPS-T4011LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.51" Triple digits SMD type display

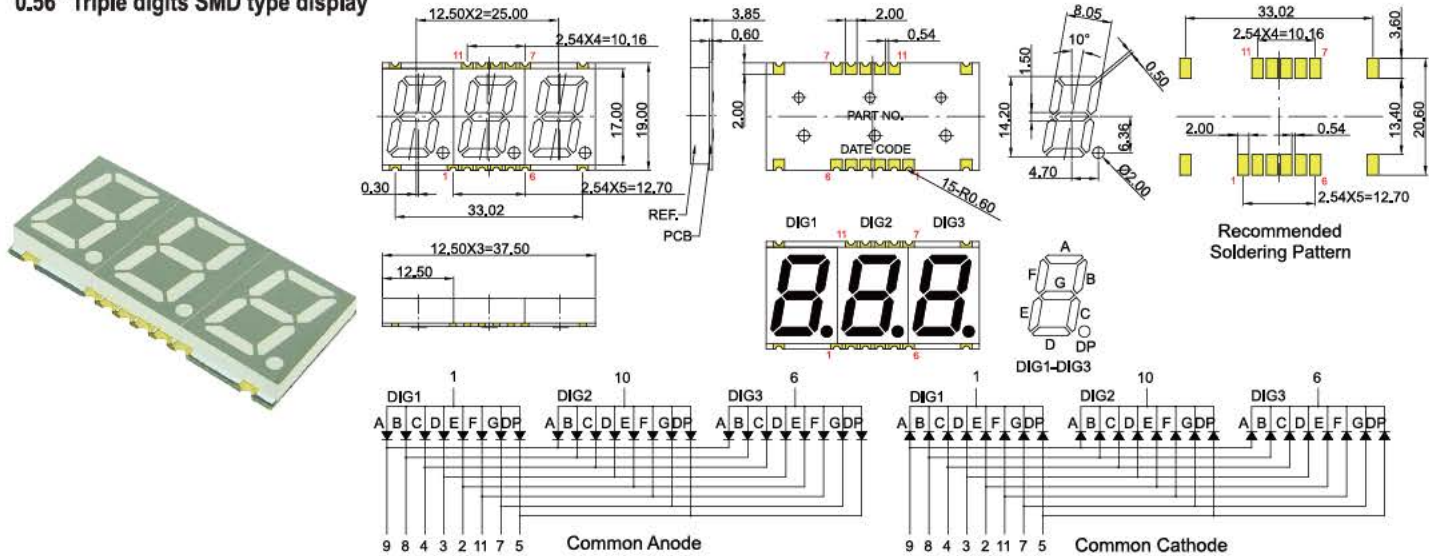


Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-T5110W	OPS-T5111W	---	InGaN	3.2	120	OPS-T5110LY	OPS-T5111LY	590	AlGaInP	2.0	30
OPS-T5110LB	OPS-T5111LB	470	InGaN	3.2	40	OPS-T5110LA	OPS-T5111LA	610	AlGaInP	2.0	30
OPS-T5110PG	OPS-T5111PG	525	InGaN	3.2	170	OPS-T5110LE	OPS-T5111LE	625	AlGaInP	2.0	30
OPS-T5110YG	OPS-T5111YG	570	AlGaInP	2.1	12	OPS-T5110LR	OPS-T5111LR	640	AlGaInP	2.0	6



Package Dimension / Internal Circuit

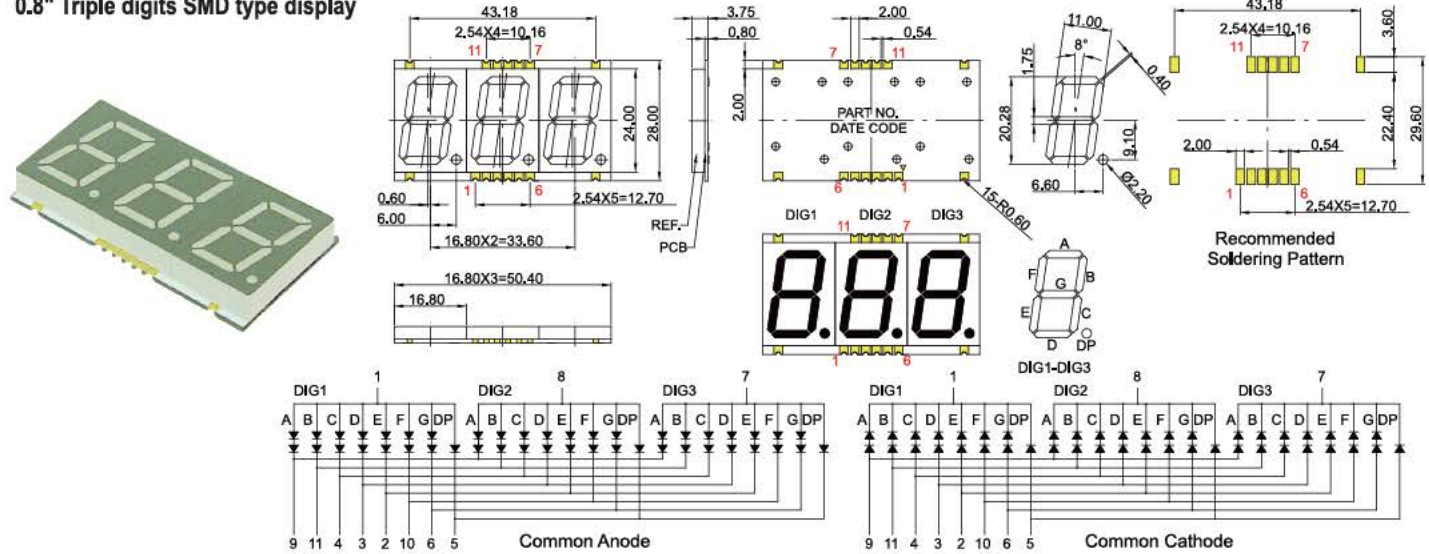
0.56" Triple digits SMD type display



Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA		Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA			
Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.		
OPS-T5610W	OPS-T5611W	---	InGaN	3.2	65	OPS-T5610LY	OPS-T5611LY	590	AlGaInP	2.0	25
OPS-T5610LB	OPS-T5611LB	470	InGaN	3.2	30	OPS-T5610LA	OPS-T5611LA	610	AlGaInP	2.0	25
OPS-T5610PG	OPS-T5611PG	525	InGaN	3.2	90	OPS-T5610LE	OPS-T5611LE	625	AlGaInP	2.0	25
OPS-T5610YG	OPS-T5611YG	570	AlGaInP	2.1	10	OPS-T5610LR	OPS-T5611LR	640	AlGaInP	2.0	4

Package Dimension / Internal Circuit

0.8" Triple digits SMD type display

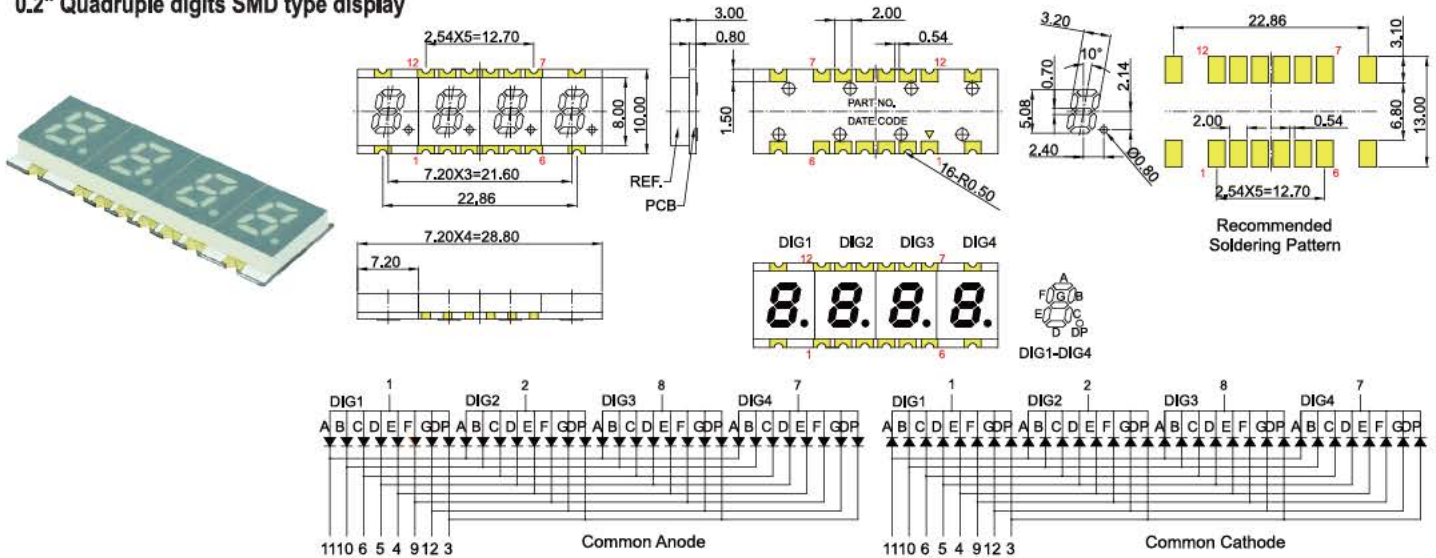


Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA		Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA			
Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.		
OPS-T8010W	OPS-T8011W	---	InGaN	3.2	150	OPS-T8010LY	OPS-T8011LY	590	AlGaInP	2.0	30
OPS-T8010LB	OPS-T8011LB	470	InGaN	3.2	50	OPS-T8010LA	OPS-T8011LA	610	AlGaInP	2.0	30
OPS-T8010PG	OPS-T8011PG	525	InGaN	3.2	210	OPS-T8010LE	OPS-T8011LE	625	AlGaInP	2.0	30
OPS-T8010YG	OPS-T8011YG	570	AlGaInP	2.1	15	OPS-T8010LR	OPS-T8011LR	640	AlGaInP	2.0	6



Package Dimension / Internal Circuit

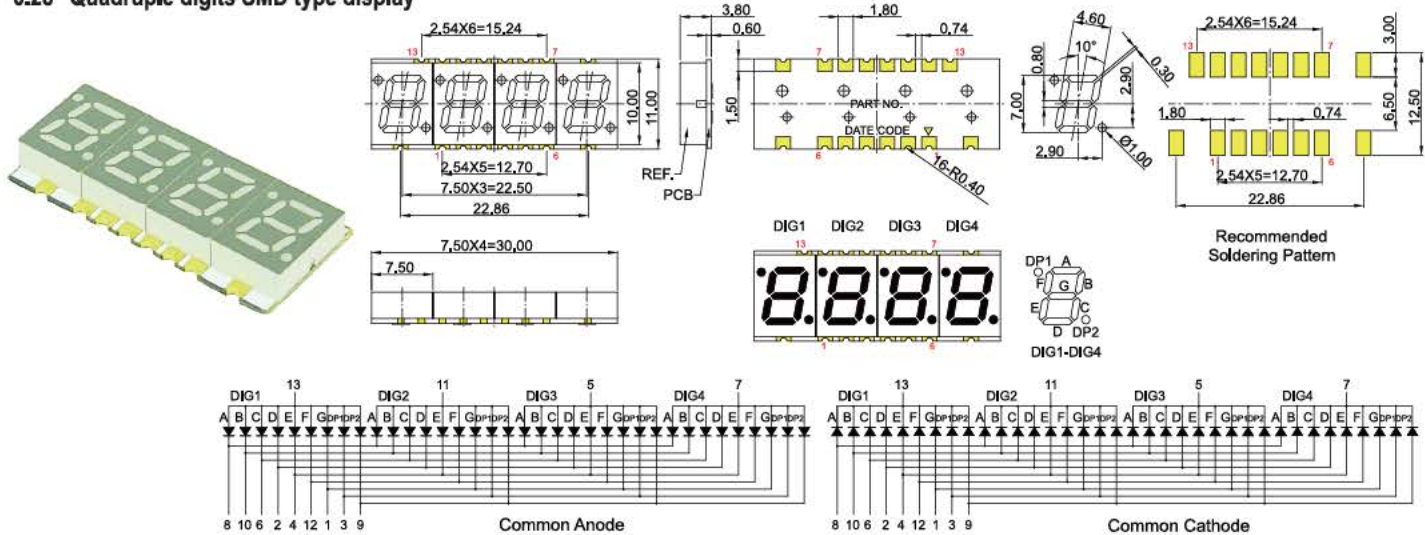
0.2" Quadruple digits SMD type display



Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-Q2010LB	OPS-Q2011LB	470	InGaN	3.2	20	OPS-Q2010LY	OPS-Q2011LY	590	AlGaInP	2.0	12
OPS-Q2010PG	OPS-Q2011PG	525	InGaN	3.2	50	OPS-Q2010LA	OPS-Q2011LA	610	AlGaInP	2.0	12
OPS-Q2010YG	OPS-Q2011YG	570	AlGaInP	2.1	6	OPS-Q2010LE	OPS-Q2011LE	625	AlGaInP	2.0	12
						OPS-Q2010LR	OPS-Q2011LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.28" Quadruple digits SMD type display

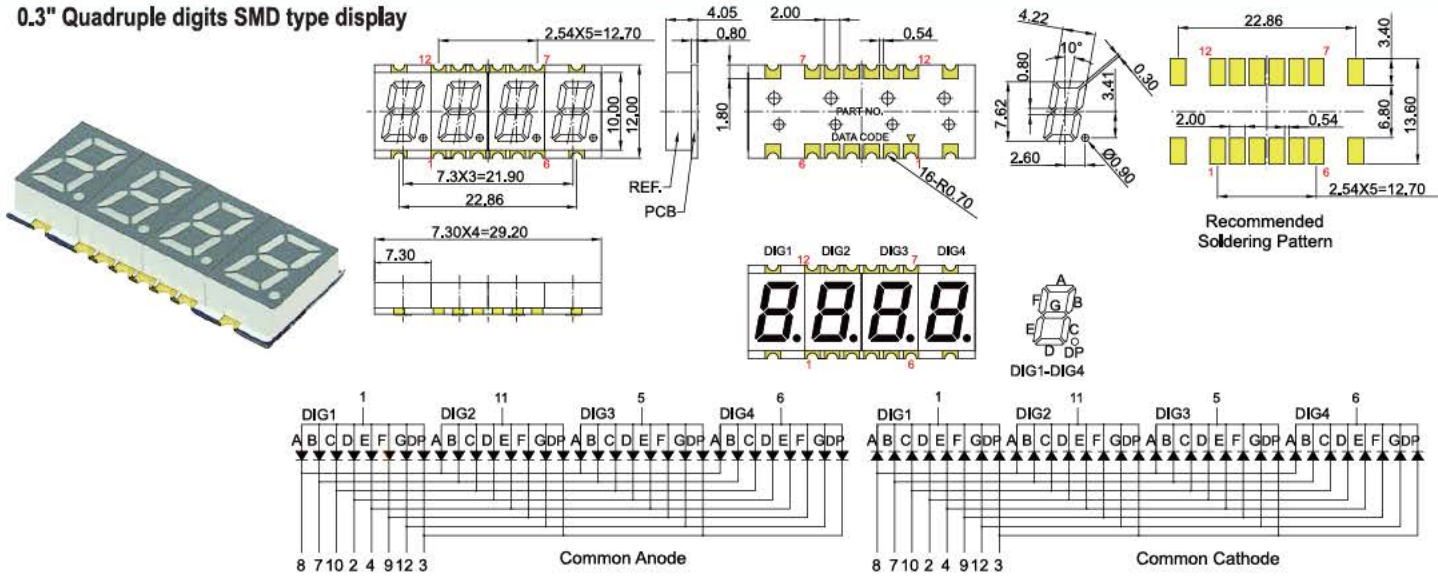


Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-Q2810LB	OPS-Q2811LB	470	InGaN	3.2	20	OPS-Q2810LY	OPS-Q2811LY	590	AlGaInP	2.0	10
OPS-Q2810PG	OPS-Q2811PG	525	InGaN	3.2	50	OPS-Q2810LA	OPS-Q2811LA	610	AlGaInP	2.0	10
OPS-Q2810YG	OPS-Q2811YG	570	AlGaInP	2.1	6	OPS-Q2810LE	OPS-Q2811LE	625	AlGaInP	2.0	10
						OPS-Q2810LR	OPS-Q2811LR	640	AlGaInP	2.0	2



Package Dimension / Internal Circuit

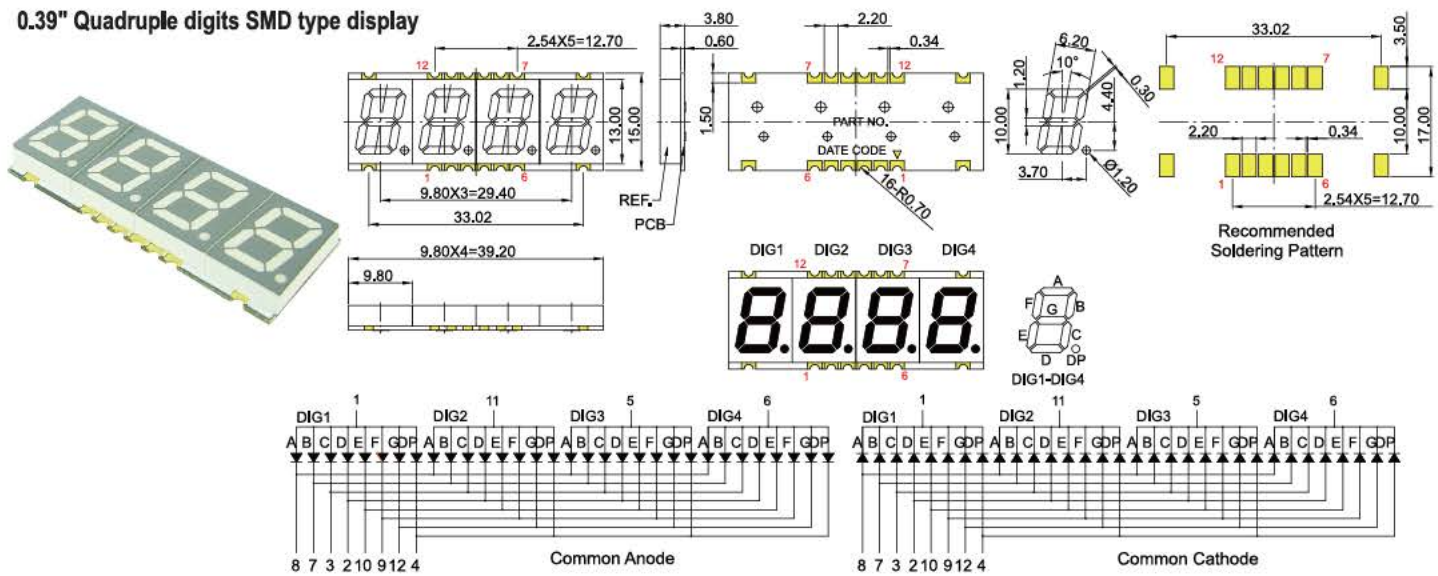
0.3" Quadruple digits SMD type display



Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λ_d @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λ_d @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-Q3010LB	OPS-Q3011LB	470	InGaN	3.2	10	OPS-Q3010LY	OPS-Q3011LY	590	AlGaInP	2.0	8
OPS-Q3010PG	OPS-Q3011PG	525	InGaN	3.2	30	OPS-Q3010LA	OPS-Q3011LA	610	AlGaInP	2.0	8
OPS-Q3010YG	OPS-Q3011YG	570	AlGaInP	2.1	5	OPS-Q3010LE	OPS-Q3011LE	625	AlGaInP	2.0	8
						OPS-Q3010LR	OPS-Q3011LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.39" Quadruple digits SMD type display

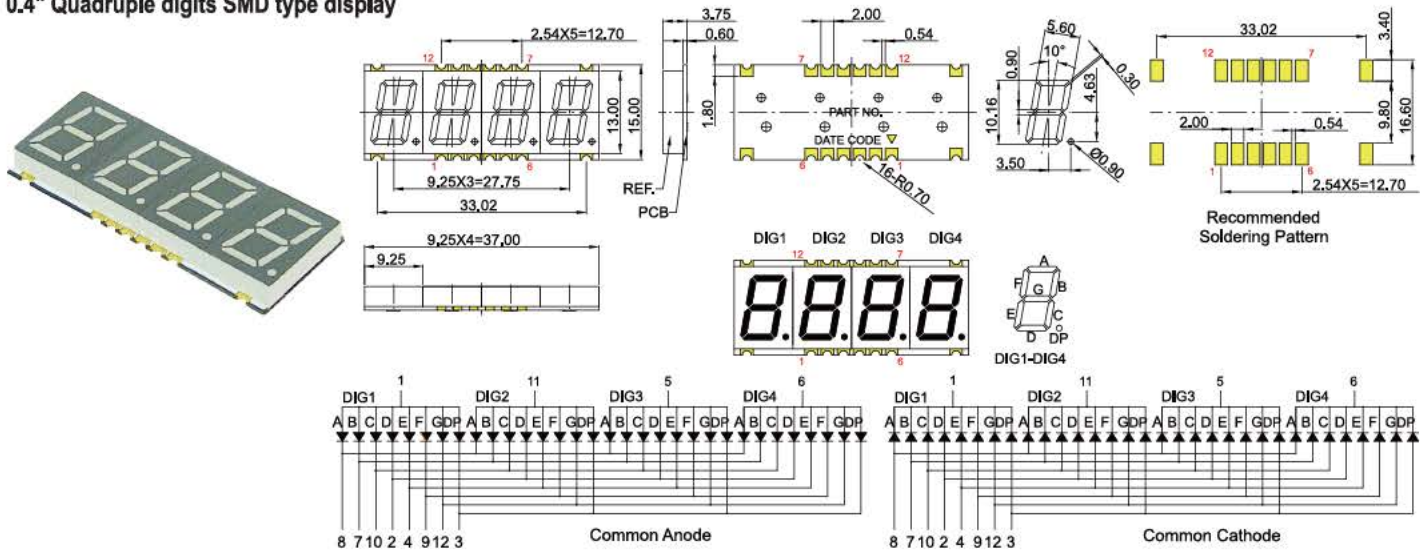


Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λ_d @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λ_d @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-Q3910W	OPS-Q3911W	---	InGaN	3.2	100	OPS-Q3910LY	OPS-Q3911LY	590	AlGaInP	2.0	30
OPS-Q3910LB	OPS-Q3911LB	470	InGaN	3.2	40	OPS-Q3910LA	OPS-Q3911LA	610	AlGaInP	2.0	30
OPS-Q3910PG	OPS-Q3911PG	525	InGaN	3.2	130	OPS-Q3910LE	OPS-Q3911LE	625	AlGaInP	2.0	30
OPS-Q3910YG	OPS-Q3911YG	570	AlGaInP	2.1	12	OPS-Q3910LR	OPS-Q3911LR	640	AlGaInP	2.0	4



Package Dimension / Internal Circuit

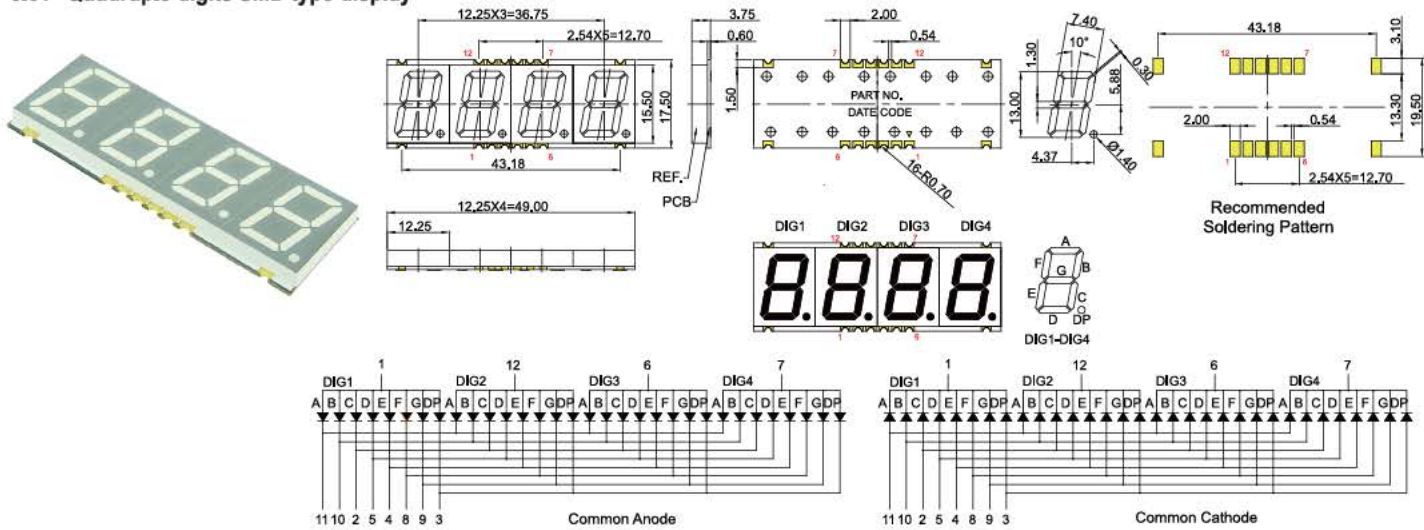
0.4" Quadruple digits SMD type display



Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	Ad @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	Ad @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-Q4010W	OPS-Q4011W	---	InGaN	3.2	50	OPS-Q4010LY	OPS-Q4011LY	590	AlGaInP	2.0	20
OPS-Q4010LB	OPS-Q4011LB	470	InGaN	3.2	20	OPS-Q4010LA	OPS-Q4011LA	610	AlGaInP	2.0	20
OPS-Q4010PG	OPS-Q4011PG	525	InGaN	3.2	50	OPS-Q4010LE	OPS-Q4011LE	625	AlGaInP	2.0	20
OPS-Q4010YG	OPS-Q4011YG	570	AlGaInP	2.1	7	OPS-Q4010LR	OPS-Q4011LR	640	AlGaInP	2.0	2

Package Dimension / Internal Circuit

0.51" Quadruple digits SMD type display

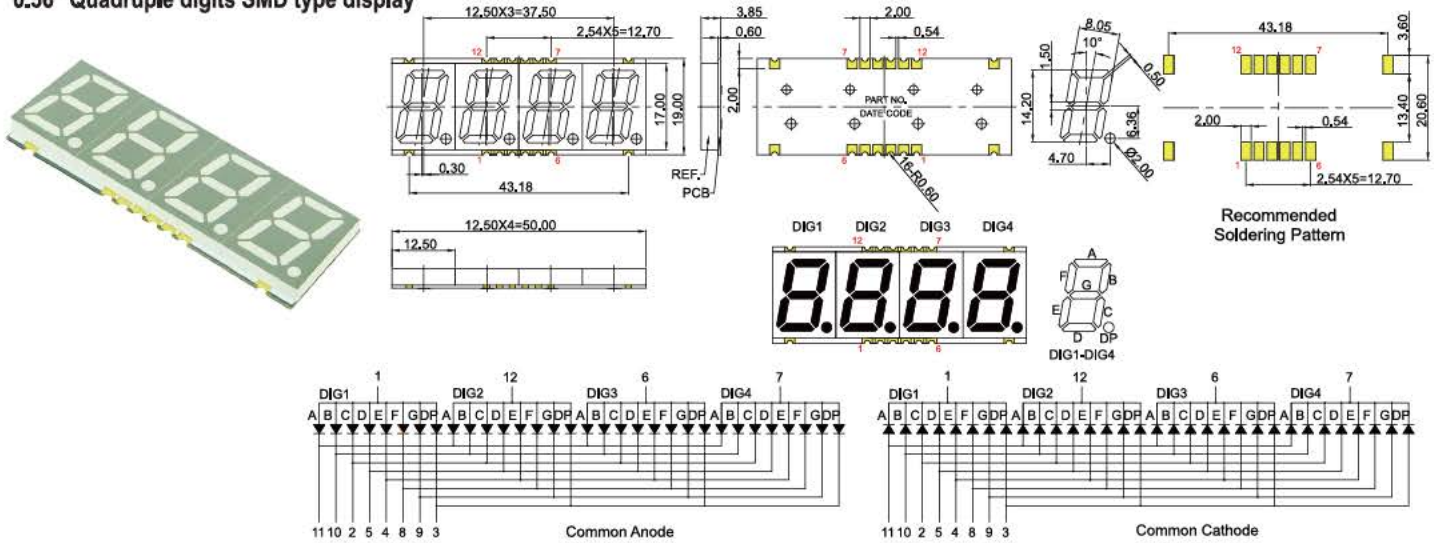


Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	Ad @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	Ad @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-Q5110W	OPS-Q5111W	---	InGaN	3.2	120	OPS-Q5110LY	OPS-Q5111LY	590	AlGaInP	2.0	30
OPS-Q5110LB	OPS-Q5111LB	470	InGaN	3.2	40	OPS-Q5110LA	OPS-Q5111LA	610	AlGaInP	2.0	30
OPS-Q5110PG	OPS-Q5111PG	525	InGaN	3.2	170	OPS-Q5110LE	OPS-Q5111LE	625	AlGaInP	2.0	30
OPS-Q5110YG	OPS-Q5111YG	570	AlGaInP	2.1	12	OPS-Q5110LR	OPS-Q5111LR	640	AlGaInP	2.0	6



Package Dimension / Internal Circuit

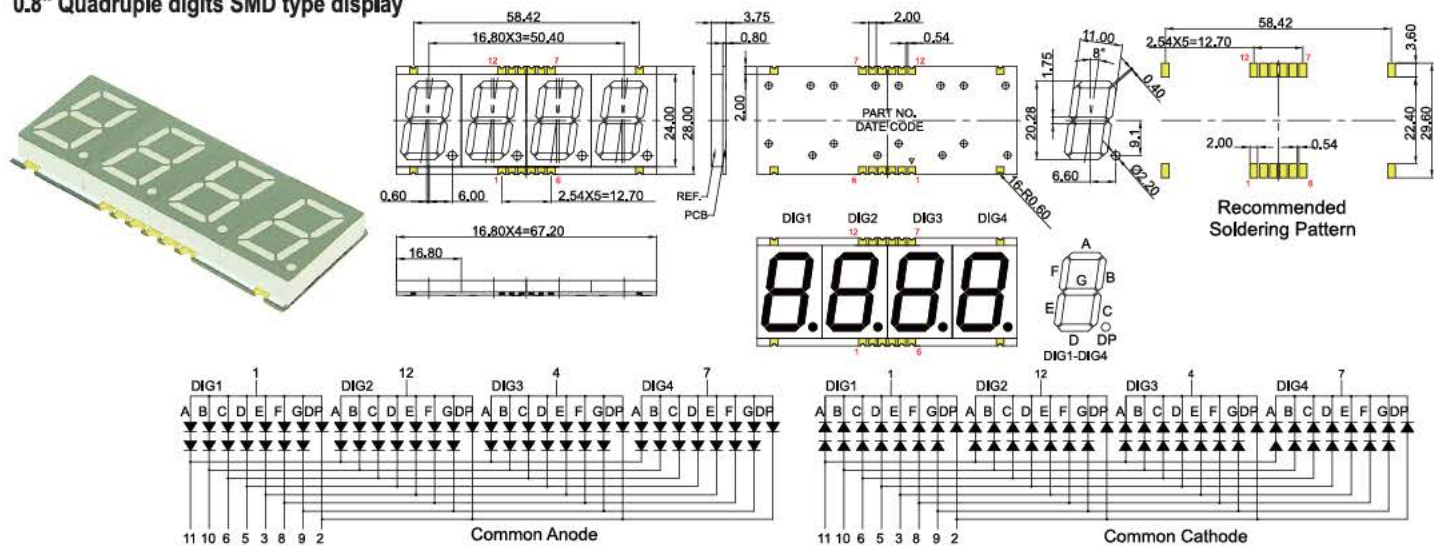
0.56" Quadruple digits SMD type display



Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA		Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA			
Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.		
OPS-Q5610W	OPS-Q5611W	---	InGaN	3.2	65	OPS-Q5610LY	OPS-Q5611LY	590	AlGaInP	2.0	25
OPS-Q5610LB	OPS-Q5611LB	470	InGaN	3.2	30	OPS-Q5610LA	OPS-Q5611LA	610	AlGaInP	2.0	25
OPS-Q5610PG	OPS-Q5611PG	525	InGaN	3.2	90	OPS-Q5610LE	OPS-Q5611LE	625	AlGaInP	2.0	25
OPS-Q5610YG	OPS-Q5611YG	570	AlGaInP	2.1	10	OPS-Q5610LR	OPS-Q5611LR	640	AlGaInP	2.0	4

Package Dimension / Internal Circuit

0.8" Quadruple digits SMD type display

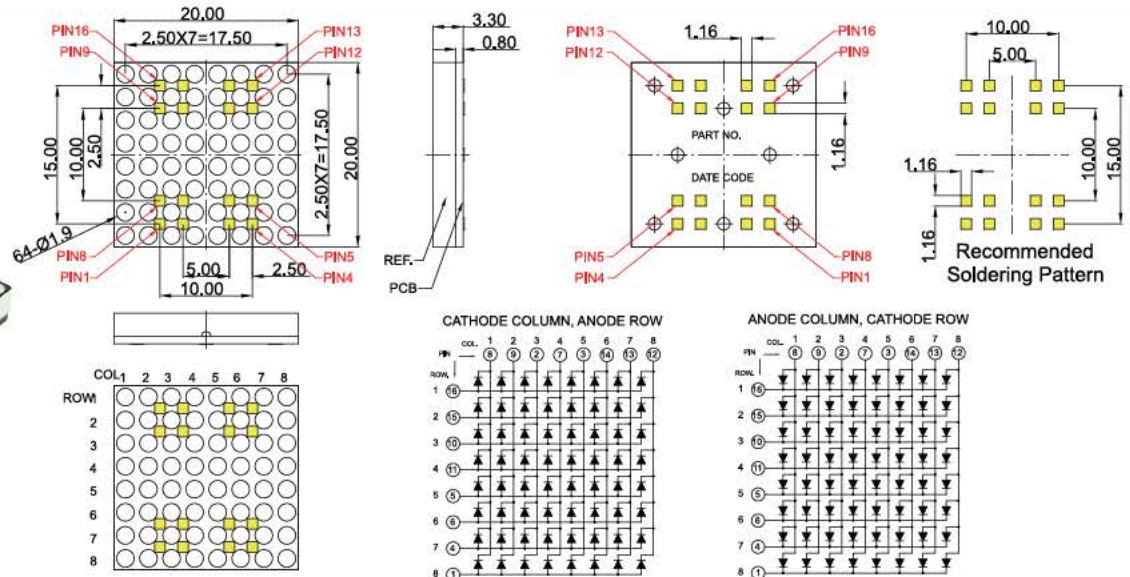


Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA		Part Number		Wavelength (nm) λd @ IF = 20mA Dice materials	IF = 20mA			
Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode		Vf (V) Typ.	Iv (mcd) Typ.		
OPS-Q8010W	OPS-Q8011W	---	InGaN	3.2	150	OPS-Q8010LY	OPS-Q8011LY	590	AlGaInP	2.0	30
OPS-Q8010LB	OPS-Q8011LB	470	InGaN	3.2	50	OPS-Q8010LA	OPS-Q8011LA	610	AlGaInP	2.0	30
OPS-Q8010PG	OPS-Q8011PG	525	InGaN	3.2	210	OPS-Q8010LE	OPS-Q8011LE	625	AlGaInP	2.0	30
OPS-Q8010YG	OPS-Q8011YG	570	AlGaInP	2.1	15	OPS-Q8010LR	OPS-Q8011LR	640	AlGaInP	2.0	6



Package Dimension / Internal Circuit

0.76" 8x8 dot matrix digits
SMD type display



Part Number		Wavelength (nm)		If = 20mA		Part Number		Wavelength (nm)		If = 20mA	
Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.	Common Anode	Common Cathode	λd @ IF = 20mA	Dice materials	Vf (V) Typ.	Iv (mcd) Typ.
OPS-M28810LB	OPS-M28811LB	470	InGaN	3.2	50	OPS-M28810LY	OPS-M28811LY	590	AlGaInP	2.0	25
OPS-M28810PG	OPS-M28811PG	525	InGaN	3.2	160	OPS-M28810LA	OPS-M28811LA	610	AlGaInP	2.0	25
OPS-M28810YG	OPS-M28811YG	570	AlGaInP	2.1	8	OPS-M28810LE	OPS-M28811LE	625	AlGaInP	2.0	25
						OPS-M28810LR	OPS-M28811LR	640	AlGaInP	2.0	5.5

