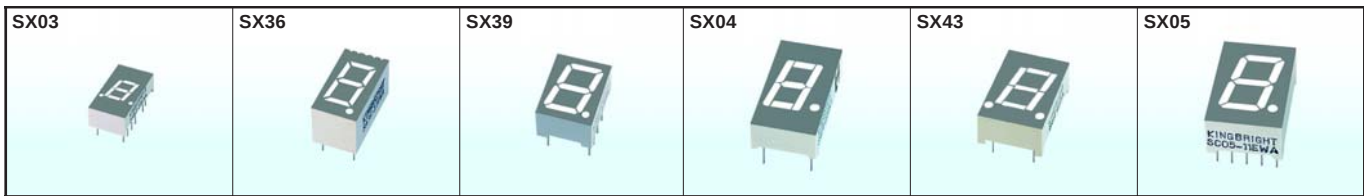


Kingbright

Optoelectronic Components

2007-2009

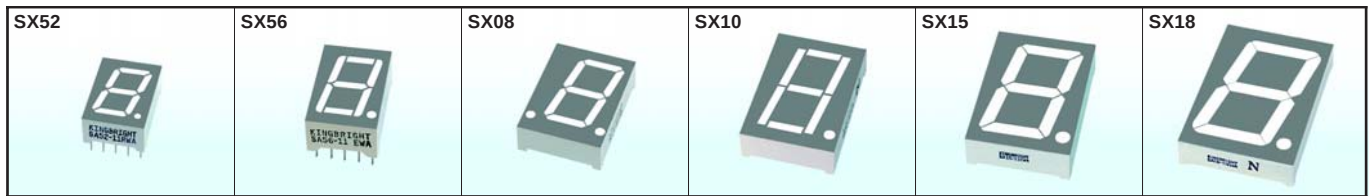
P 2-3	SINGLE DIGIT NUMERIC DISPLAYS
P 4	SINGLE & DUAL DIGIT NUMERIC DISPLAYS
P 5	DUAL, THREE & FOUR DIGIT NUMERIC DISPLAYS
P 6-7	FOUR DIGIT NUMERIC & ALPHANUMERIC DISPLAY
P 8-9	DOT MATRIX
P 10-27	PACKAGE DIMENSIONS & INTERNAL CIRCUIT DIAGRAM



Part No.		Package Description	Material	λ D (nm)	Iv (ucd) @10mA		Package Dimension
Common Anode	Common Cathode				Min.	Typ.	
SA03-11EWA	SC03-12EWA	0.3 inch (7.62mm) Gray Face White Segment	GaAsP/GaP	625	1900	8500	11
SA03-11SRWA	SC03-12SRWA		GaAlAs	640	8000	26000	
SA03-11YWA	SC03-12YWA		GaAsP/GaP	588	1900	8000	
SA03-11GWA	SC03-12GWA		GaP	568	1900	8000	
SA36-11EWA	SC36-11EWA	0.36 inch (9.14mm) Gray Face White Segment	GaAsP/GaP	625	480	1900	12
SA36-11SRWA	SC36-11SRWA		GaAlAs	640	1900	8200	
SA36-11YWA	SC36-11YWA		GaAsP/GaP	588	800	3200	
SA36-11GWA	SC36-11GWA		GaP	568	800	3500	
SA39-11EWA SA39-12EWA	SC39-11EWA SC39-12EWA	0.39 inch (9.9mm) Gray Face White Segment	GaAsP/GaP	625	800	4100	13
SA39-11SRWA SA39-12SRWA	SC39-11SRWA SC39-12SRWA		GaAlAs	640	4700	20000	
SA39-11YWA SA39-12YWA	SC39-11YWA SC39-12YWA		GaAsP/GaP	588	800	3000	
SA39-11GWA SA39-12GWA	SC39-11GWA SC39-12GWA		GaP	568	1200	6400	
SA04-11EWA SA04-12EWA	SC04-11EWA SC04-12EWA	0.4 inch (10.16mm) Gray Face White Segment	GaAsP/GaP	625	1900	8000	14
SA04-11SRWA SA04-12SRWA	SC04-11SRWA SC04-12SRWA		GaAlAs	640	4700	18000	
SA04-11YWA SA04-12YWA	SC04-11YWA SC04-12YWA		GaAsP/GaP	588	1200	4700	
SA04-11GWA SA04-12GWA	SC04-11GWA SC04-12GWA		GaP	568	3000	12000	
SA43-11EWA SA43-13EWA	SC43-11EWA SC43-13EWA	0.43 inch (10.92mm) Gray Face White Segment	GaAsP/GaP	625	1200	4700	15
SA43-11SRWA SA43-13SRWA	SC43-11SRWA SC43-13SRWA		GaAlAs	640	8000	26000	
SA43-11YWA SA43-13YWA	SC43-11YWA SC43-13YWA		GaAsP/GaP	588	1200	4700	
SA43-11GWA SA43-13GWA	SC43-11GWA SC43-13GWA		GaP	568	1900	10500	
SA05-11EWA	SC05-11EWA	0.5 inch (12.7mm) Gray Face White Segment	GaAsP/GaP	625	1900	8000	16
SA05-11SRWA	SC05-11SRWA		GaAlAs	640	8000	29500	
SA05-11YWA	SC05-11YWA		GaAsP/GaP	588	1200	4700	
SA05-11GWA	SC05-11GWA		GaP	568	1900	10500	

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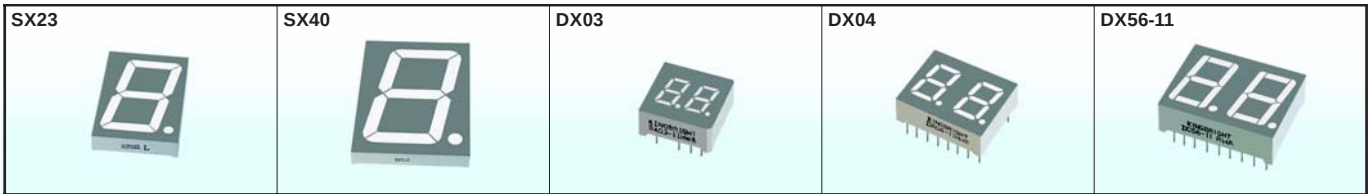
1. All dimensions are in millimeters(inches).
2. Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.



Part No.		Package Description	Material	λ D (nm)	Iv (ucd) @10mA		Package Dimension
Common Anode	Common Cathode				Min.	Typ.	
SA52-11EWA	SC52-11EWA	0.52 inch (13.2mm) Gray Face White Segment	GaAsP/GaP	625	1200	6400	17
SA52-11SRWA	SC52-11SRWA		GaAlAs	640	8000	29000	
SA52-11YWA	SC52-11YWA		GaAsP/GaP	588	1200	4700	
SA52-11GWA	SC52-11GWA		GaP	568	1900	10500	
SA56-11EWA SA56-21EWA	SC56-11EWA SC56-21EWA	0.56 inch (14.2mm) Gray Face White Segment	GaAsP/GaP	625	1200	6400	18
SA56-11SRWA SA56-21SRWA	SC56-11SRWA SC56-21SRWA		GaAlAs	640	4700	24000	
SA56-11YWA SA56-21YWA	SC56-11YWA SC56-21YWA		GaAsP/GaP	588	1200	4700	
SA56-11GWA SA56-21GWA	SC56-11GWA SC56-21GWA		GaP	568	1900	10500	
SA08-11EWA SA08-12EWA SA08-13EWA SA08-21EWA	SC08-11EWA SC08-12EWA SC08-13EWA SC08-21EWA	0.8 inch (20.32mm) Gray Face White Segment	GaAsP/GaP	625	1900	8000	19
SA08-11SRWA SA08-12SRWA SA08-13SRWA SA08-21SRWA	SC08-11SRWA SC08-12SRWA SC08-13SRWA SC08-21SRWA		GaAlAs	640	8000	36000	
SA08-11YWA SA08-12YWA SA08-13YWA SA08-21YWA	SC08-11YWA SC08-12YWA SC08-13YWA SC08-21YWA		GaAsP/GaP	588	1200	4700	
SA08-11GWA SA08-12GWA SA08-13GWA SA08-21GWA	SC08-11GWA SC08-12GWA SC08-13GWA SC08-21GWA		GaP	568	3000	16000	
SA10-11EWA SA10-21EWA	SC10-11EWA SC10-21EWA	1.0 inch (25.4mm) Gray Face White Segment	GaAsP/GaP	625	3000	16000	20
SA10-11SRWA SA10-21SRWA	SC10-11SRWA SC10-21SRWA		GaAlAs	640	12000	60000	
SA10-11YWA SA10-21YWA	SC10-11YWA SC10-21YWA		GaAsP/GaP	588	3000	16000	
SA10-11GWA SA10-21GWA	SC10-11GWA SC10-21GWA		GaP	568	4700	24000	
SA15-11EWA	SC15-11EWA	1.5 inch (38.1mm) Gray Face White Segment	GaAsP/GaP	625	3000	16000	21
SA15-11SRWA	SC15-11SRWA		GaAlAs	640	12000	60000	
SA15-11YWA	SC15-11YWA		GaAsP/GaP	588	1900	8000	
SA15-11GWA	SC15-11GWA		GaP	568	4700	24000	
SBA15-11EGWA	SBC15-11EGWA		GaAsP/GaP	625	3000	16000	
			GaP	568	4700	24000	
SA18-11EWA	SC18-11EWA	1.75 inch (44.5mm) Gray Face White Segment	GaAsP/GaP	625	4700	24000	22
SA18-11SRWA	SC18-11SRWA		GaAlAs	640	18000	75000	
SA18-11YWA	SC18-11YWA		GaAsP/GaP	588	1900	8000	
SA18-11GWA	SC18-11GWA		GaP	568	3000	12000	
SBA18-11EGWA	SBC18-11EGWA		GaAsP/GaP	625	4700	24000	
			GaP	568	3000	12000	

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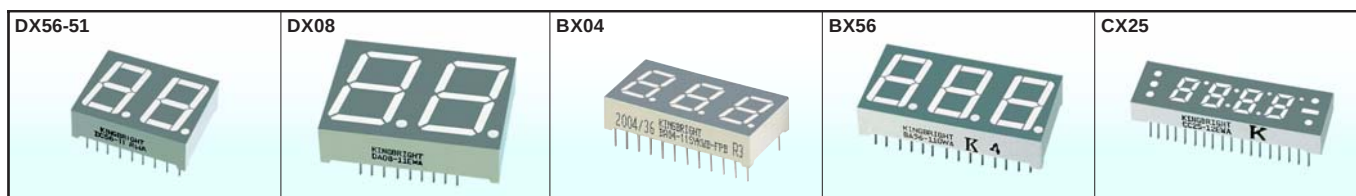
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- Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.



Part No.		Package Description	Material	λ D (nm)	Iv (ucd) @10mA		Package Dimension
Common Anode	Common Cathode				Min.	Typ.	
SA23-11EWA SA23-12EWA	SC23-11EWA SC23-12EWA	2.24 inch (56.9mm) Gray Face White Segment	GaAsP/GaP	625	12000	55500	23
SA23-11SRWA SA23-12SRWA	SC23-11SRWA SC23-12SRWA		GaAlAs	640	18000	75000	
SA23-11YWA SA23-12YWA	SC23-11YWA SC23-12YWA		GaAsP/GaP	588	8000	26500	
SA23-11GWA SA23-12GWA	SC23-11GWA SC23-12GWA		GaP	568	12000	53000	
SBA23-11EGWA	SBC23-11EGWA		GaAsP/GaP	625	12000	55500	
			GaP	568	12000	53000	
SA40-18EWA SA40-19EWA	SC40-18EWA SC40-19EWA	3.984 inch (101.2mm) Gray Face White Segment	GaAsP/GaP	625	12000	44000	24
SA40-18SRWA SA40-19SRWA	SC40-18SRWA SC40-19SRWA		GaAlAs	640	26000	105000	
SA40-18YWA SA40-19YWA	SC40-18YWA SC40-19YWA		GaAsP/GaP	588	8000	26000	
SA40-18GWA SA40-19GWA	SC40-18GWA SC40-19GWA		GaP	568	12000	60000	
DA03-11EWA	DC03-11EWA	0.3 inch (7.62mm) Gray Face White Segment	GaAsP/GaP	625	800	3100	25
DA03-11SRWA	DC03-11SRWA		GaAlAs	640	3000	13600	
DA03-11YWA	DC03-11YWA		GaAsP/GaP	588	480	1900	
DA03-11GWA	DC03-11GWA		GaP	568	800	3000	
DA04-11EWA	DC04-11EWA	0.394 inch (10mm) Gray Face White Segment	GaAsP/GaP	625	1200	4700	26
DA04-11SRWA	DC04-11SRWA		GaAlAs	640	4700	18000	
DA04-11YWA	DC04-11YWA		GaAsP/GaP	588	1200	4700	
DA04-11GWA	DC04-11GWA		GaP	568	1900	8000	
DA56-11EWA	DC56-11EWA	0.56 inch (14.22mm) Gray Face White Segment	GaAsP/GaP	625	1900	8000	27
DA56-11SRWA	DC56-11SRWA		GaAlAs	640	8000	27500	
DA56-11YWA	DC56-11YWA		GaAsP/GaP	588	1200	4700	
DA56-11GWA	DC56-11GWA		GaP	568	1900	10500	

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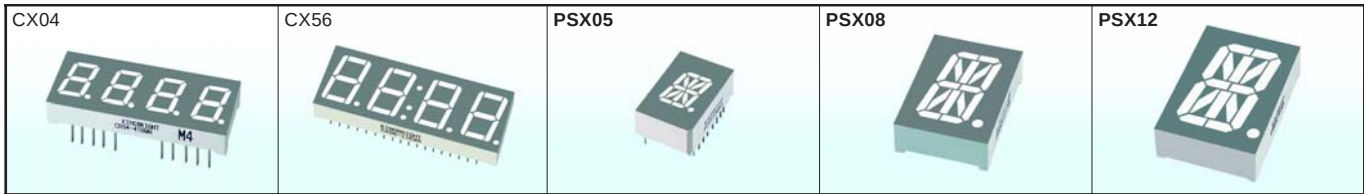
1. All dimensions are in millimeters(inches).
2. Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.



Part No.		Package Description	Material	λ D (nm)	Iv (ucd) @10mA		Package Dimension
Common Anode	Common Cathode				Min.	Typ.	
DA56-51EWA	DC56-51EWA	0.56 inch (14.22mm) Gray Face White Segment	GaAsP/GaP	625	3000	12000	28
DA56-51SRWA	DC56-51SRWA		GaAlAs	640	8000	29500	
DA56-51YWA	DC56-51YWA		GaAsP/GaP	588	1200	5300	
DA56-51GWA	DC56-51GWA		GaP	568	3000	14400	
DA08-11EWA	DC08-11EWA	0.8 inch (20.32mm) Gray Face White Segment	GaAsP/GaP	625	1900	8000	29
DA08-11SRWA	DC08-11SRWA		GaAlAs	640	8000	29000	
DA08-11YWA	DC08-11YWA		GaAsP/GaP	588	1200	4700	
DA08-11GWA	DC08-11GWA		GaP	568	3000	13000	
BA04-11EWA	BC04-11EWA	0.4 inch (10.2mm) Gray Face White Segment	GaAsP/GaP	625	1200	4700	30
BA04-11SRWA	BC04-11SRWA		GaAlAs	640	4700	18000	
BA04-11YWA	BC04-11YWA		GaAsP/GaP	588	1200	4700	
BA04-11GWA	BC04-11GWA		GaP	568	1900	8500	
BA56-11EWA BA56-12EWA BA56-13EWA	BC56-11EWA BC56-12EWA BC56-13EWA	0.56 inch (14.22mm) Gray Face White Segment	GaAsP/GaP	625	3000	16000	31
BA56-11SRWA BA56-12SRWA BA56-13SRWA	BC56-11SRWA BC56-12SRWA BC56-13SRWA		GaAlAs	640	12000	45000	
BA56-11YWA BA56-12YWA BA56-13YWA	BC56-11YWA BC56-12YWA BC56-13YWA		GaAsP/GaP	588	1900	8000	
BA56-11GWA BA56-12GWA BA56-13GWA	BC56-11GWA BC56-12GWA BC56-13GWA		GaP	568	3000	16000	
CA25-11EWA CA25-12EWA	CC25-11EWA CC25-12EWA	0.244 inch (6.2mm) Gray Face White Segment	GaAsP/GaP	625	1200	6400	32
CA25-11YWA CA25-12YWA	CC25-11YWA CC25-12YWA		GaAsP/GaP	588	1200	4850	
CA25-11GWA CA25-12GWA	CC25-11GWA CC25-12GWA		GaP	568	1900	10500	

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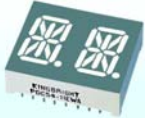
1. All dimensions are in millimeters(inches).
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Part No.		Package Description	Material	λ D (nm)	Iv (ucd) @10mA		Package Dimension
Common Anode	Common Cathode				Min.	Typ.	
CA04-41EWA	CC04-41EWA	0.4 inch (10.16mm) Gray Face White Segment	GaAsP/GaP	625	1200	4700	33
CA04-41SRWA	CC04-41SRWA		GaAlAs	640	4700	18000	
CA04-41YWA	CC04-41YWA		GaAsP/GaP	588	1200	4700	
CA04-41GWA	CC04-41GWA		GaP	568	1900	8500	
CA56-11EWA CA56-12EWA CA56-21EWA	CC56-11EWA CC56-12EWA CC56-21EWA	0.56 inch (14.22mm) Gray Face White Segment	GaAsP/GaP	625	1900	8000	34
CA56-11SRWA CA56-12SRWA CA56-21SRWA	CC56-11SRWA CC56-12SRWA CC56-21SRWA		GaAlAs	640	12000	45000	
CA56-11YWA CA56-12YWA CA56-21YWA	CC56-11YWA CC56-12YWA CC56-21YWA		GaAsP/GaP	588	1900	8000	
CA56-11GWA CA56-12GWA CA56-21GWA	CC56-11GWA CC56-12GWA CC56-21GWA		GaP	568	3000	13000	
PSA05-11EWA PSA05-12EWA	PSC05-11EWA PSC05-12EWA	0.5 inch (12.7mm) Gray Face White Segment	GaAsP/GaP	625	800	4100	35
PSA05-11SRWA PSA05-12SRWA	PSC05-11SRWA PSC05-12SRWA		GaAlAs	640	4700	18000	
PSA05-11YWA PSA05-12YWA	PSC05-11YWA PSC05-12YWA		GaAsP/GaP	588	800	3000	
PSA05-11GWA PSA05-12GWA	PSC05-11GWA PSC05-12GWA		GaP	568	1200	4700	
PSA08-11EWA PSA08-12EWA	PSC08-11EWA PSC08-12EWA	0.8 inch (20.32mm) Gray Face White Segment	GaAsP/GaP	625	1200	4700	36
PSA08-11SRWA PSA08-12SRWA	PSC08-11SRWA PSC08-12SRWA		GaAlAs	640	4700	18000	
PSA08-11YWA PSA08-12YWA	PSC08-11YWA PSC08-12YWA		GaAsP/GaP	588	1200	4700	
PSA08-11GWA PSA08-12GWA	PSC08-11GWA PSC08-12GWA		GaP	568	1900	8200	
PSA12-11EWA	PSC12-11EWA	1.2 inch (30.48mm) Gray Face White Segment	GaAsP/GaP	625	3000	12000	37
PSA12-11SRWA	PSC12-11SRWA		GaAlAs	640	8000	26000	
PSA12-11YWA	PSC12-11YWA		GaAsP/GaP	588	1200	4700	
PSA12-11GWA	PSC12-11GWA		GaP	568	3000	12000	

NOTES:

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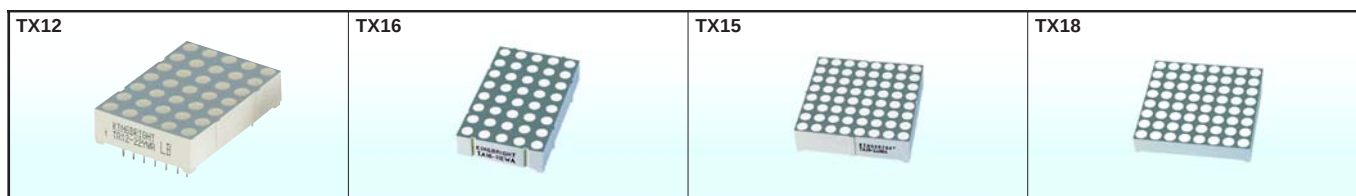
PSX23 	PDX54 	TX07 
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Part No.		Package Description	Material	λ D (nm)	Iv (ucd) @10mA		Package Dimension
Common Anode	Common Cathode				Min.	Typ.	
PSA23-11EWA	PSC23-11EWA	2.24 inch (56.8mm) Gray Face White Segment	GaAsP/GaP	625	1900	8000	38
PSA23-11SRWA	PSC23-11SRWA		GaAlAs	640	12000	75000	
PSA23-11YWA	PSC23-11YWA		GaAsP/GaP	588	1900	8000	
PSA23-11GWA	PSC23-11GWA		GaP	568	1900	10500	
PDA54-11EWA PDA54-12EWA	PDC54-11EWA PDC54-12EWA	0.543 inch (13.8mm) Gray Face White Segment	GaAsP/GaP	625	1200	4700	39
PDA54-11SRWA PDA54-12SRWA	PDC54-11SRWA PDC54-12SRWA		GaAlAs	640	4700	18000	
PDA54-11YWA PDA54-12YWA	PDC54-11YWA PDC54-12YWA		GaAsP/GaP	588	800	3000	
PDA54-11GWA PDA54-12GWA	PDC54-11GWA PDC54-12GWA		GaP	568	1900	8000	

Part No.		Package Description	Material	λ D (nm)	Iv (ucd) @10mA		Package Dimension
Column Anode	Column Cathode				Min.	Typ.	
TA07-11EWA	TC07-11EWA	0.7 inch (18mm) 5x7 Gray Face White Dot	GaAsP/GaP	625	1900	8000	40
TA07-11SRWA	TC07-11SRWA		GaAlAs	640	8000	30000	
TA07-11YWA	TC07-11YWA		GaAsP/GaP	588	1900	8100	
TA07-11GWA	TC07-11GWA		GaP	568	4700	18000	

NOTES:

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Part No.		Package Description	Material	λ D (nm)	Iv (ucd) @10mA		Package Dimension
Column Anode	Column Cathode				Min.	Typ.	
TA12-11EWA	TC12-11EWA	1.2 inch (30mm) 5x7 Gray Face White Dot	GaAsP/GaP	625	3000	12000	42
TA12-11SRWA	TC12-11SRWA		GaAlAs	640	8000	36000	
TA12-11YWA	TC12-11YWA		GaAsP/GaP	588	3000	12500	
TA12-11GWA	TC12-11GWA		GaP	568	4700	19000	
TA12-22EWA	TC12-22EWA		GaAsP/GaP	625	3000	12000	
TA12-22SRWA	TC12-22SRWA		GaAlAs	640	12000	37800	
TA12-22YWA	TC12-22YWA		GaAsP/GaP	588	3000	12500	
TA12-22GWA	TC12-22GWA		GaP	568	3000	15033	
TBA12-11EGWA	TBC12-11EGWA		GaAsP/GaP	625	3000	12000	
			GaP	568	4700	19000	
TBA12-12EGWA	TBC12-12EGWA		GaAsP/GaP	625	3000	12000	
			GaP	568	4700	19000	
TBA12-22EGWA	TBC12-22EGWA		GaAsP/GaP	625	3000	12000	
			GaP	568	4700	19000	
TA16-11EWA	TC16-11EWA	1.38 inch (35.2mm) 5x8 Gray Face White Dot	GaAsP/GaP	625	1900	8000	43
TA16-11SRWA	TC16-11SRWA		GaAlAs	640	8000	36000	
TA16-11YWA	TC16-11YWA		GaAsP/GaP	588	3000	12500	
TA16-11GWA	TC16-11GWA		GaP	568	3000	12000	
TA15-11EWA	TC15-11EWA	1.5 inch (38mm) 8x8 Gray Face White Dot	GaAsP/GaP	625	3000	12500	41
TA15-11SRWA	TC15-11SRWA		GaAlAs	640	12000	45500	
TA15-11YWA	TC15-11YWA		GaAsP/GaP	588	1900	8000	
TA15-11GWA	TC15-11GWA		GaP	568	4700	19500	
TBA15-11EGWA	TBC15-11EGWA		GaAsP/GaP	625	3000	12500	
			GaP	568	4700	19500	
TA18-21EWA	TC18-21EWA	1.85 inch (47mm) 8x8 Gray Face White Dot	GaAsP/GaP	625	4700	19650	44
TA18-21SRWA	TC18-21SRWA		GaAlAs	640	12000	44000	
TA18-21YWA	TC18-21YWA		GaAsP/GaP	588	3000	14850	
TA18-21GWA	TC18-21GWA		GaP	568	8000	29200	
TBA18-21EGWA	TBC18-21EGWA		GaAsP/GaP	625	4700	19650	
			GaP	568	8000	29200	

NOTES:

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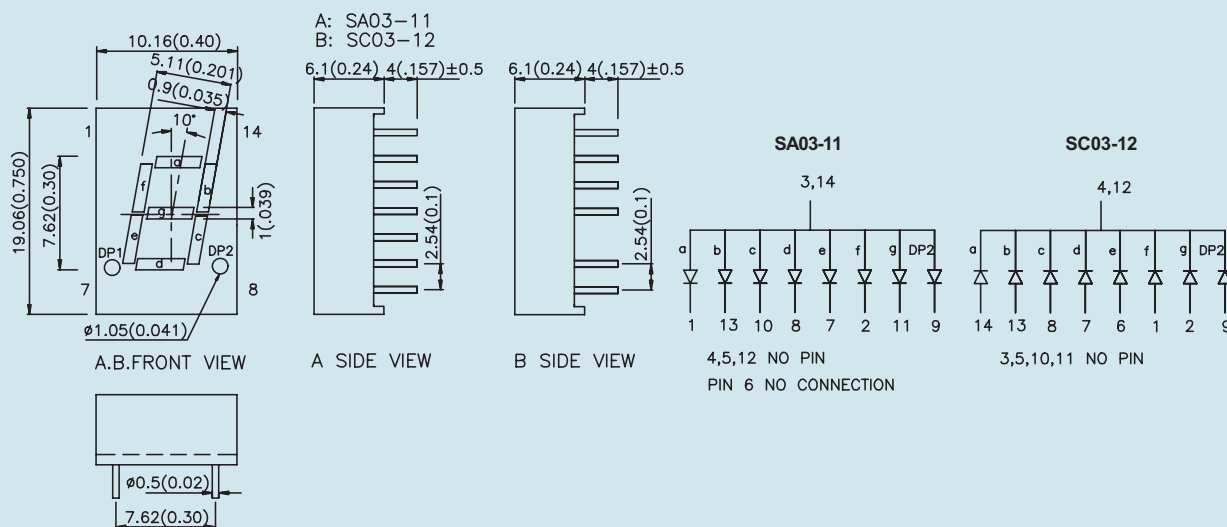
Part No.		Package Description	Material	λ D (nm)	Iv (ucd) @10mA		Package Dimension
Column Anode	Column Cathode				Min.	Typ.	
TA20-11EWA	TC20-11EWA	2.0 inch (50mm) 5x7 Gray Face White Dot	GaAsP/GaP	625	3000	12000	45
TA20-11SRWA	TC20-11SRWA		GaAlAs	640	8000	26000	
TA20-11YWA	TC20-11YWA		GaAsP/GaP	588	1900	8000	
TA20-11GWA	TC20-11GWA		GaP	568	3000	16000	
TBA20-11EGWA	TBC20-11EGWA		GaAsP/GaP	625	3000	12000	
			GaP	568	3000	16000	
TBA20-12EGWA	TBC20-12EGWA		GaAsP/GaP	625	3000	12000	
			GaP	568	3000	16000	
TA23-11EWA	TC23-11EWA	2.3 inch (58mm) 8x8 Gray Face White Dot	GaAsP/GaP	625	3000	14000	46
TA23-11SRWA	TC23-11SRWA		GaAlAs	640	12000	44000	
TA23-11YWA	TC23-11YWA		GaAsP/GaP	588	1900	8000	
TA23-11GWA	TC23-11GWA		GaP	568	4700	18500	
TBA23-11EGWA	TBC23-11EGWA		GaAsP/GaP	625	3000	14000	
			GaP	568	4700	18500	
TBA23-12EGWA	TBC23-12EGWA		GaAsP/GaP	625	3000	14000	
			GaP	568	4700	18500	
TA24-11EWA	TC24-11EWA	2.4 inch (60.8mm) 5x8 Gray Face White Dot	GaAsP/GaP	625	3000	13500	47
TA24-11SRWA	TC24-11SRWA		GaAlAs	640	18000	61000	
TA24-11YWA	TC24-11YWA		GaAsP/GaP	588	1900	8000	
TA24-11GWA	TC24-11GWA		GaP	568	4700	20000	
TBA24-11EGWA	TBC24-11EGWA		GaAsP/GaP	625	3000	13500	
			GaP	568	4700	20000	
TBA24-22EGWA	TBC24-22EGWA		GaAsP/GaP	625	3000	13500	
			GaP	568	4700	20000	
TA30-11EWA	TC30-11EWA	3.0 inch (76.2mm) 5x7 Gray Face White Dot	GaAsP/GaP	625	8000	32000	48
TA30-11SRWA	TC30-11SRWA		GaAlAs	640	18000	88000	
TA30-11YWA	TC30-11YWA		GaAsP/GaP	588	8000	28570	
TA30-11GWA	TC30-11GWA		GaP	568	12000	56100	
TA40-11EWA	TC40-11EWA	4.0 inch (100mm) 5x7 Gray Face White Dot	GaAsP/GaP	625	8000	33000	49
TA40-11SRWA	TC40-11SRWA		GaAlAs	640	18000	90500	
TA40-11YWA	TC40-11YWA		GaAsP/GaP	588	4700	18000	
TA40-11GWA	TC40-11GWA		GaP	568	12000	42000	
TBA40-11EGWA	TBC40-11EGWA		GaAsP/GaP	625	8000	33000	
			GaP	568	12000	42000	
TBA40-12EGWA	TBC40-12EGWA		GaAsP/GaP	625	8000	33000	
			GaP	568	12000	42000	

NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.

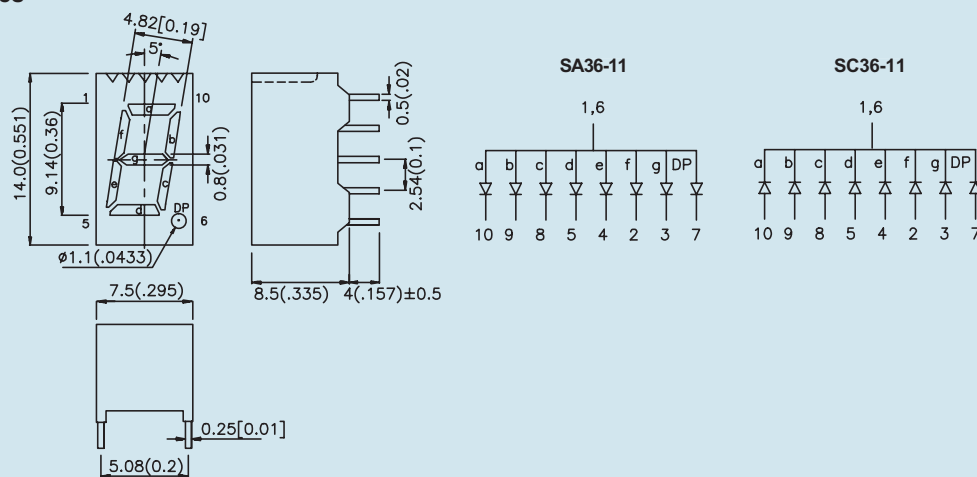
SA/SC03 Series

11



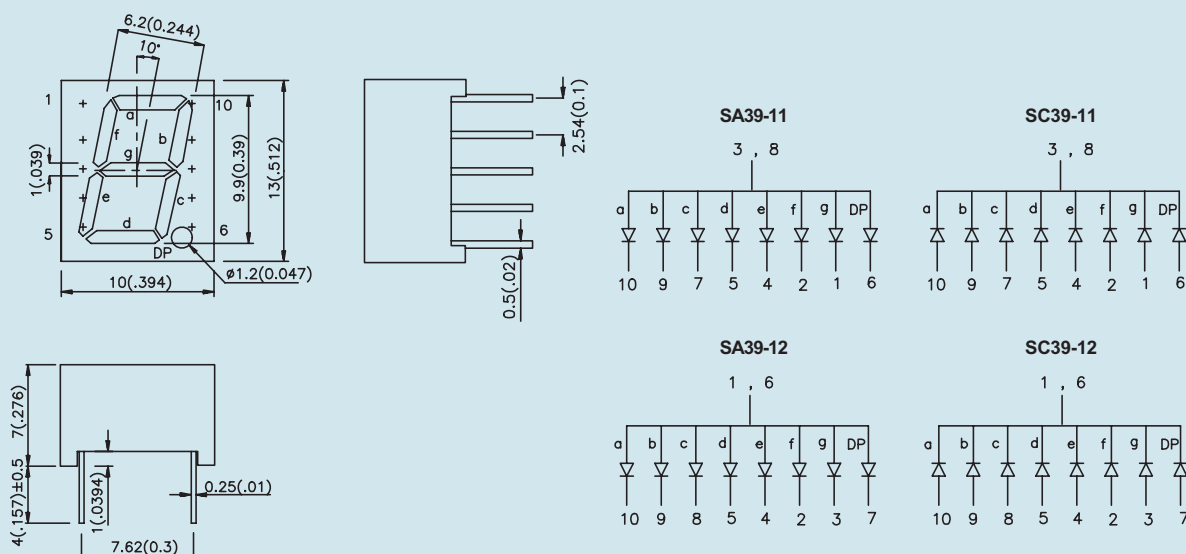
SA/SC36 Series

12



SA/SC39 Series

13



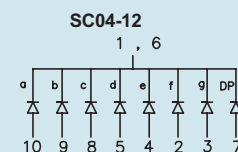
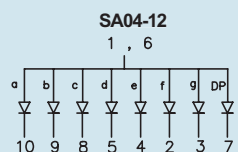
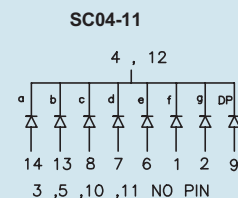
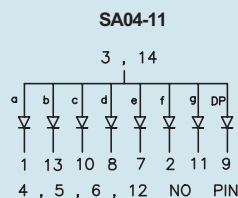
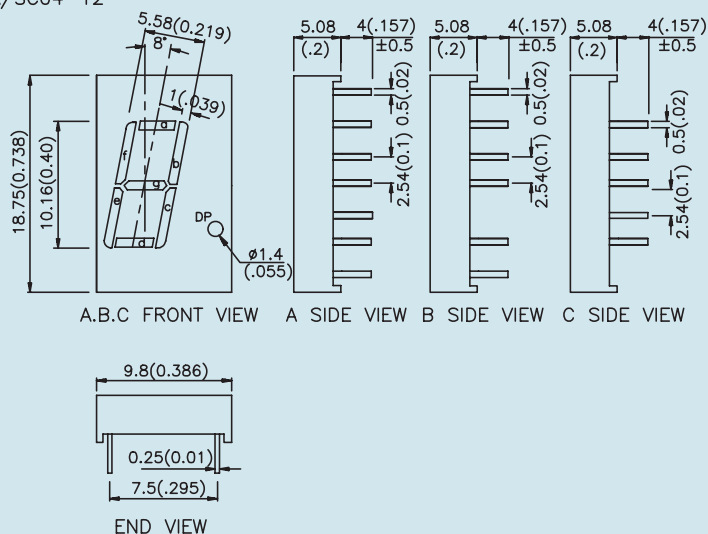
NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is 0.25mm(0.01") unless otherwise noted.

SA/SC04 Series

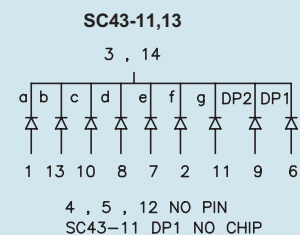
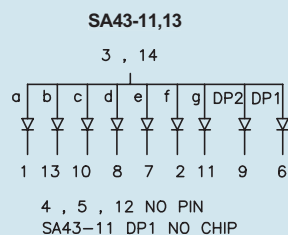
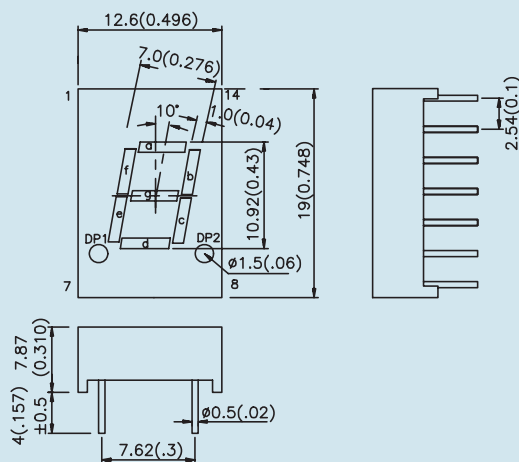
14

- A: SA04-11
B: SC04-11
C: SA/SC04-12



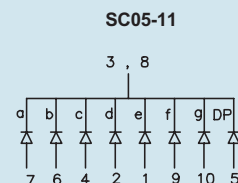
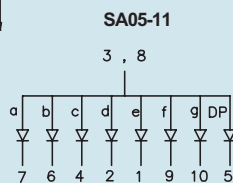
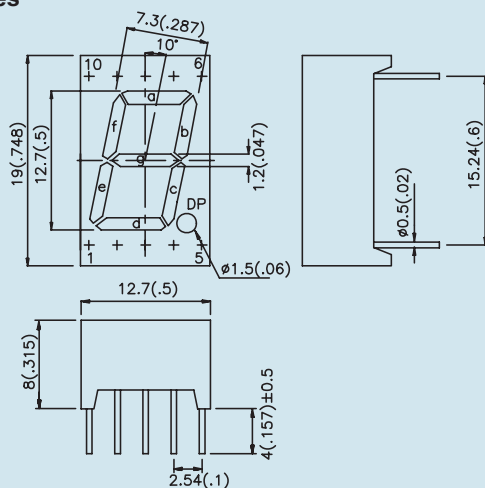
SA/SC43 Series

15



SA/SC05 Series

16

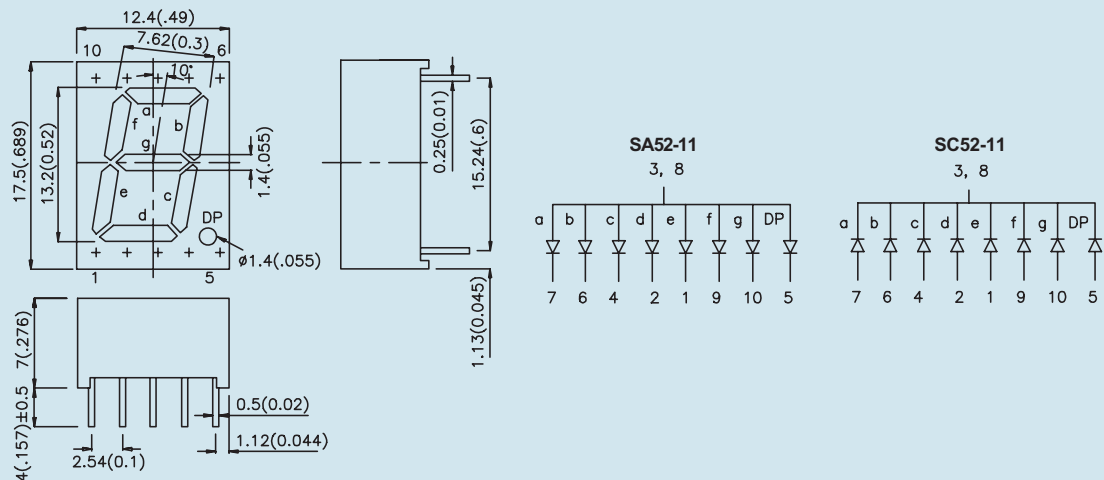


NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is 0.25mm(0.01") unless otherwise noted.

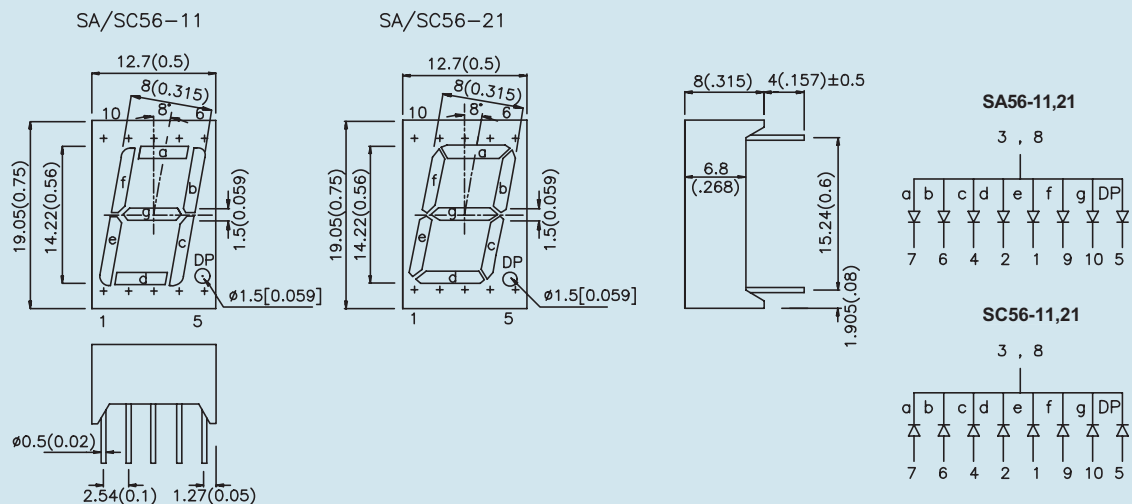
SA/SC52 Series

17



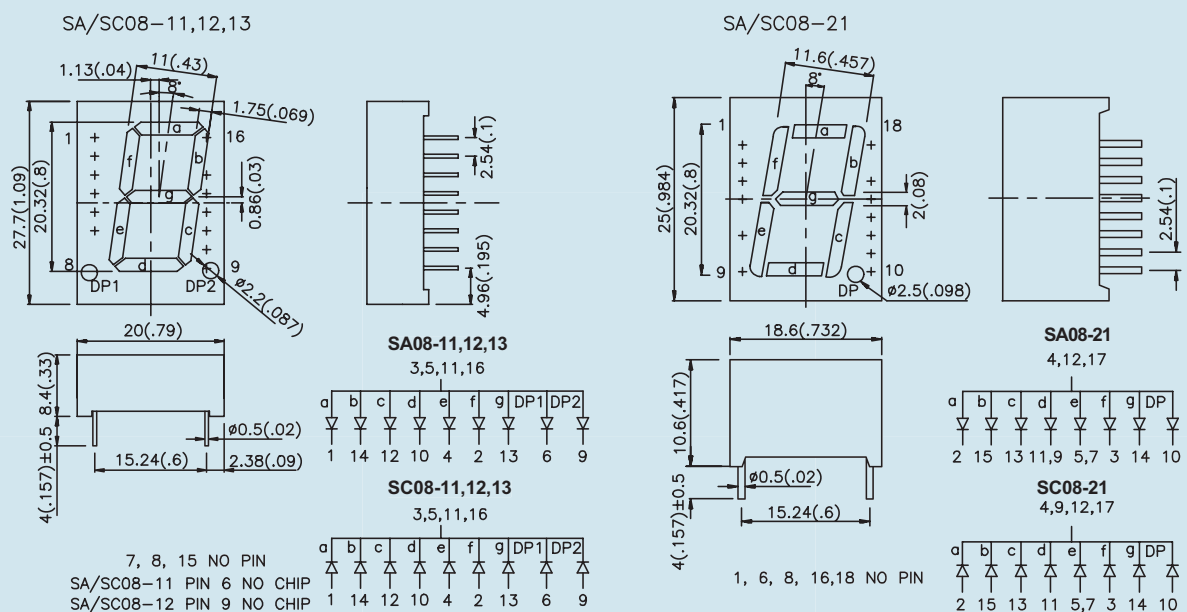
SA/SC56 Series

18



SA/SC08 Series

19

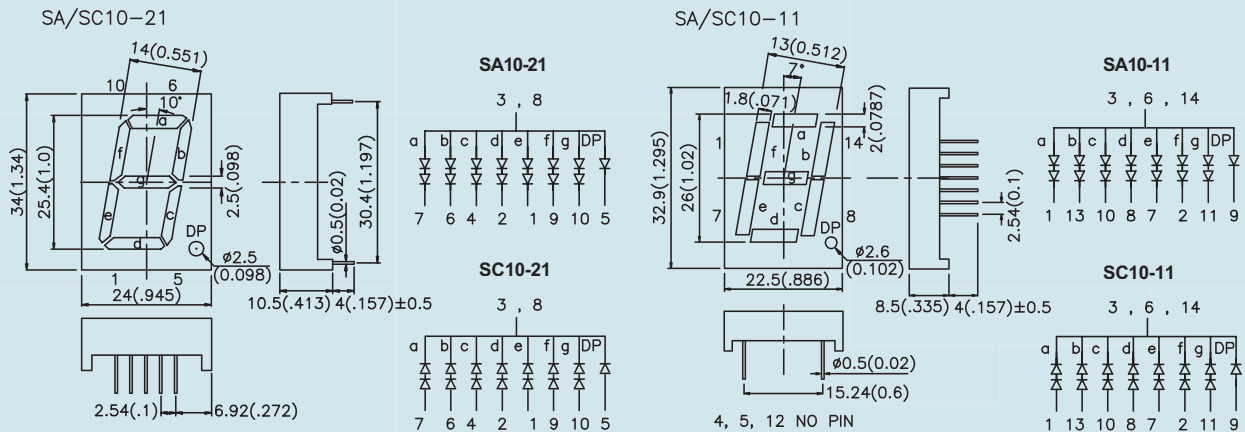


NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is 0.25mm(0.01") unless otherwise noted.

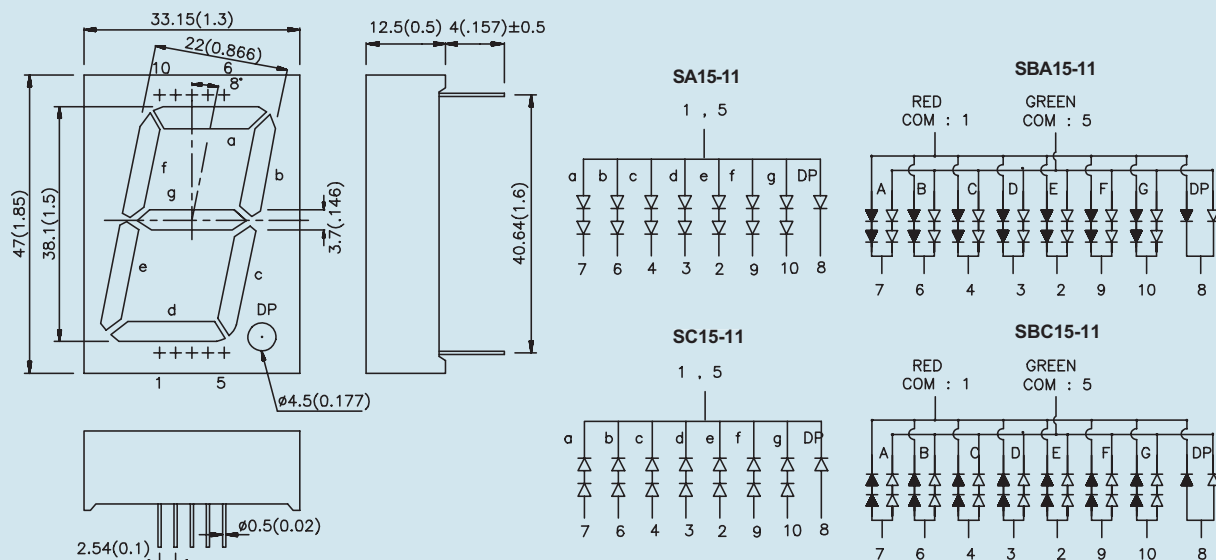
SA/SC10 Series

20



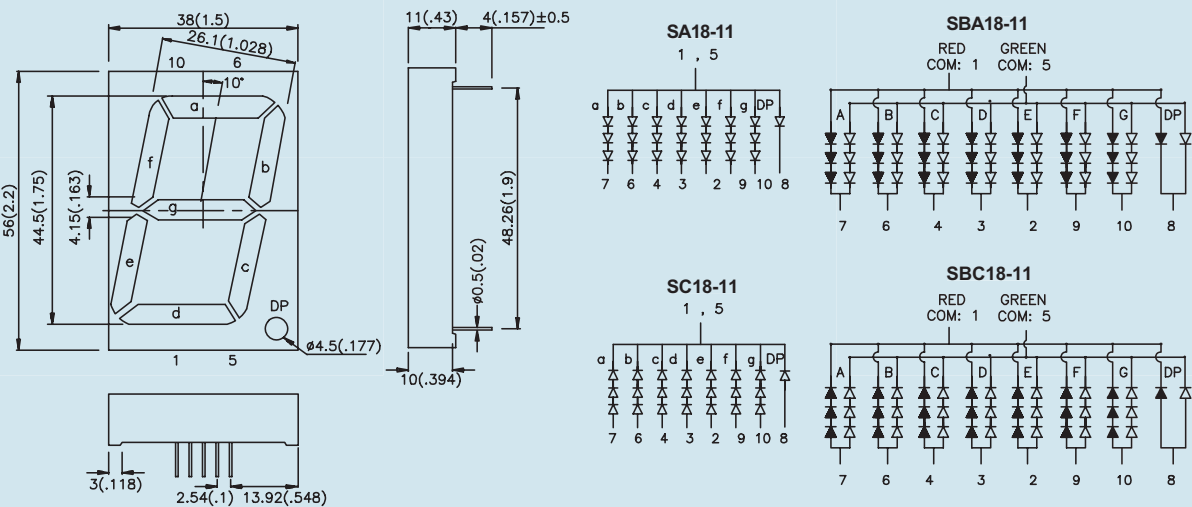
SA/SC15, SBA/SBC15 Series

21



SA/SC18, SBA/SBC18 Series

22

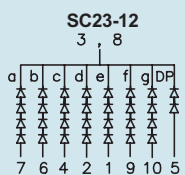
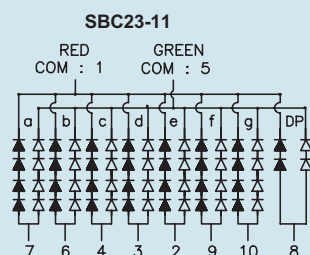
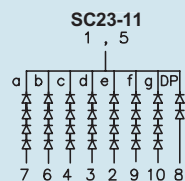
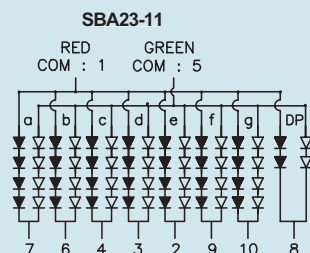
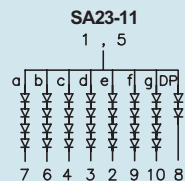
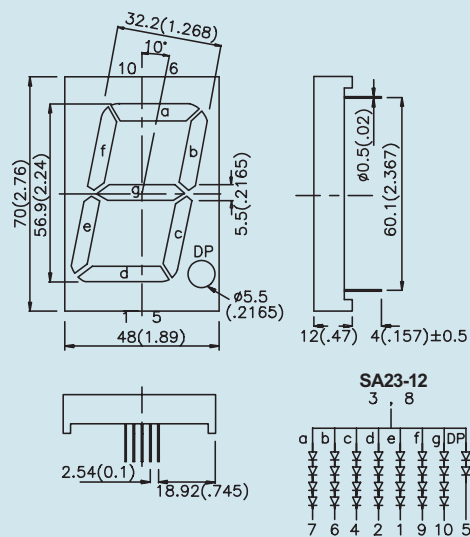


NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is 0.25mm(0.01") unless otherwise noted.

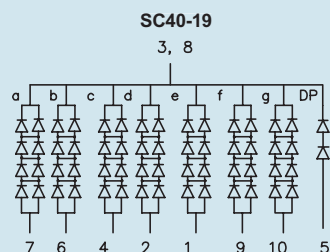
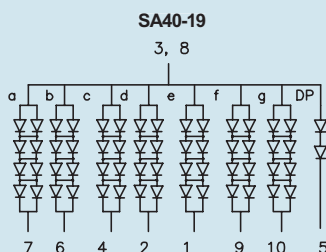
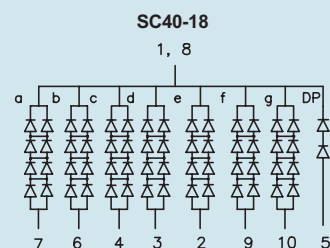
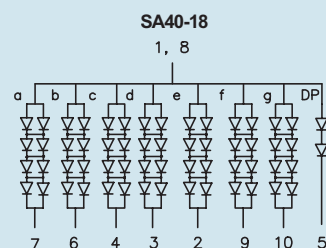
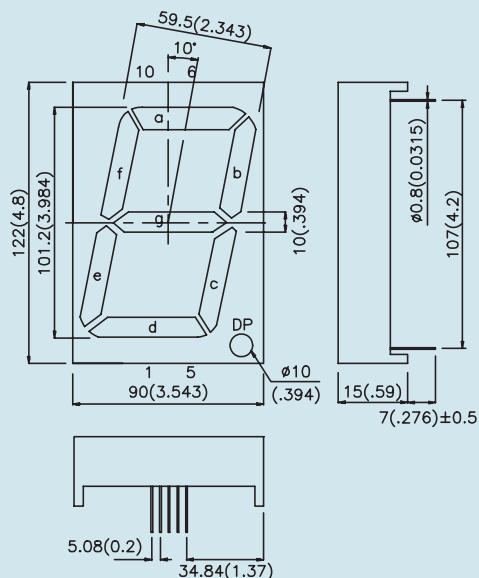
SA/SC23,SBA/SBC23 Series

23



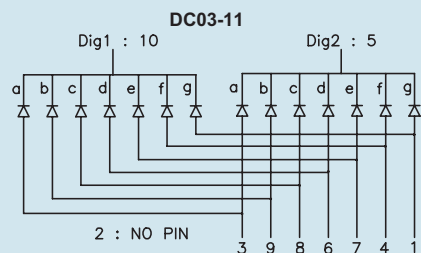
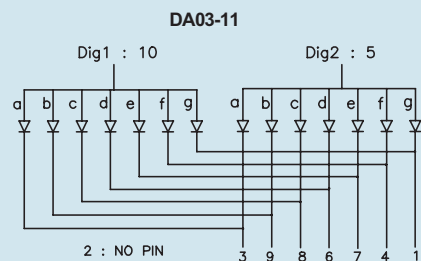
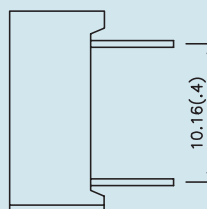
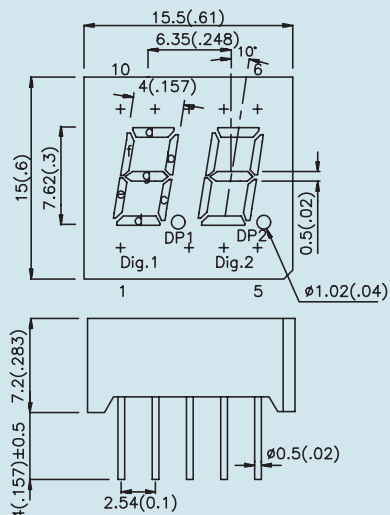
SA/SC40 Series

24



DA/DC03 Series

25

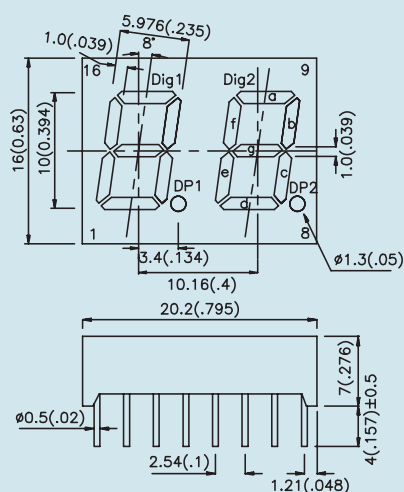


NOTES:

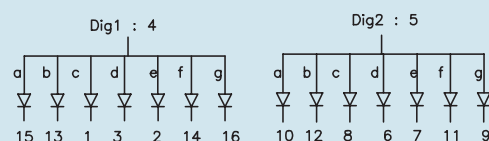
- NOTES:
1. All dimensions are in millimeters(inches).
 2. Tolerance is 0.25mm(0.01") unless otherwise noted.

DA/DC04 Series

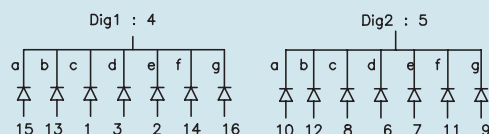
26



DA04-11

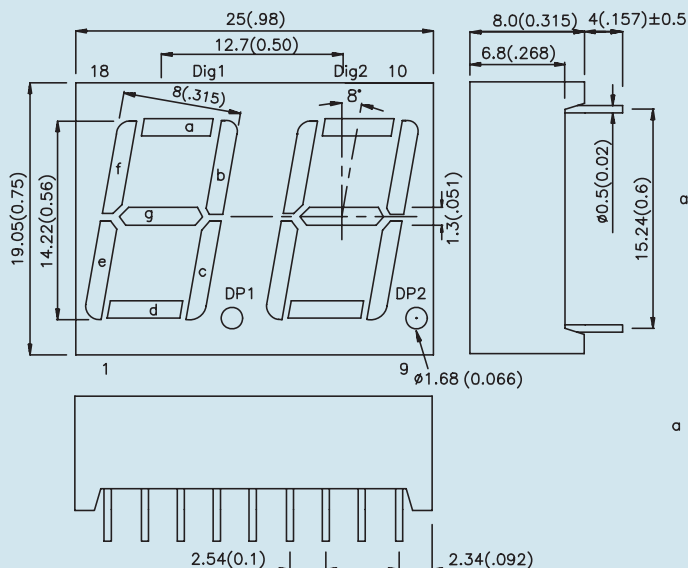


DC04-11

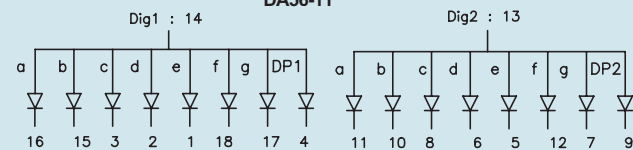


DA/DC56-11 Series

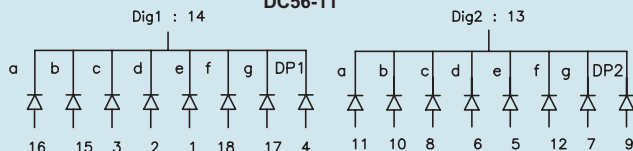
27



DA56-11

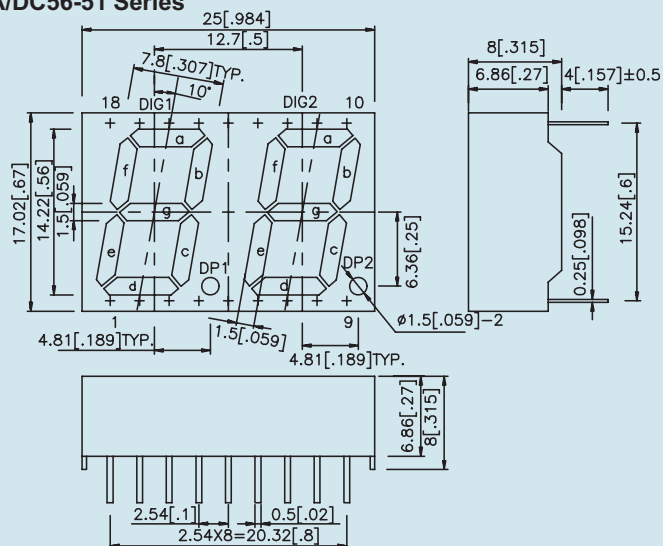


DC56-11

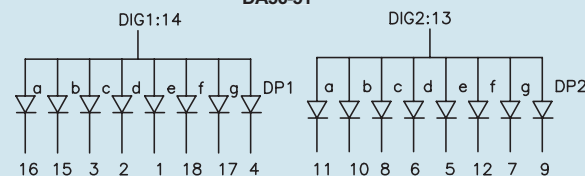


DA/DC56-51 Series

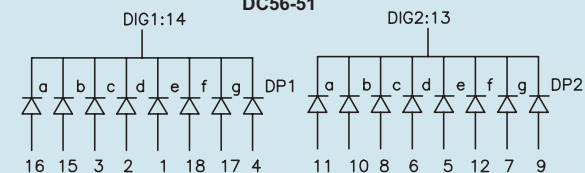
28



DA56-51



DC56-51



NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is 0.25mm(0.01") unless otherwise noted.

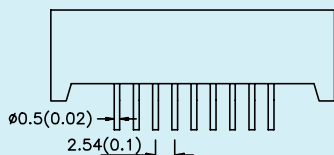


Diagram illustrating two digital-to-analog converters (Dig1 and Dig2) with their respective resolutions and bit weights.

Dig1 : 14

Inputs: a, b, c, d, e, f, g, DP1

Outputs (from left to right): 16, 15, 3, 2, 1, 18, 17, 4

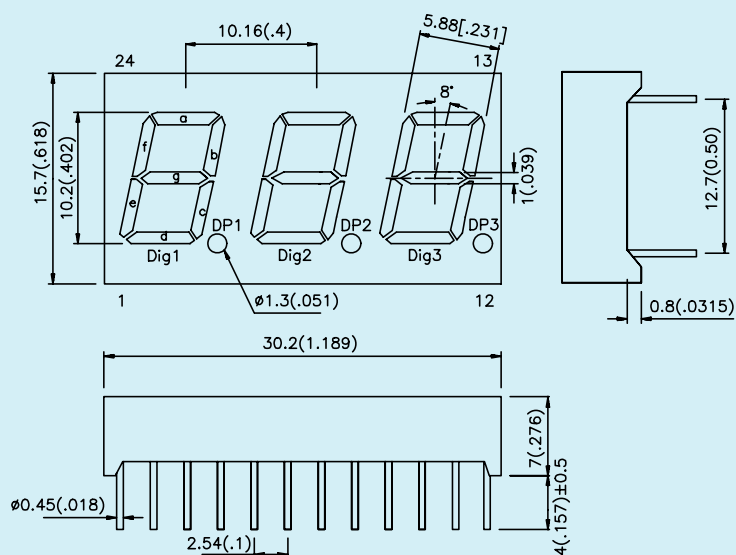
Dig2 : 13

Inputs: a, b, c, d, e, f, g, DP2

Outputs (from left to right): 11, 10, 8, 6, 5, 12, 7, 9

Diagram illustrating two phylogenetic trees (Dig1 and Dig2) showing relationships between nodes a, b, c, d, e, f, g, and DP1/DP2. The trees are rooted at Dig1 : 14 and Dig2 : 13 respectively. The nodes are labeled with numbers below them: a (16), b (15), c (3), d (2), e (1), f (18), g (17), and DP1 (4) for the first tree; and a (11), b (10), c (8), d (6), e (5), f (12), g (7), and DP2 (9) for the second tree.

30



04-11

Dig2
5

a b c d e f g

18 20 8 6 7 19 17

04-11

Dig2

5

a b c d e f g

18 20 8 6 7 19 17

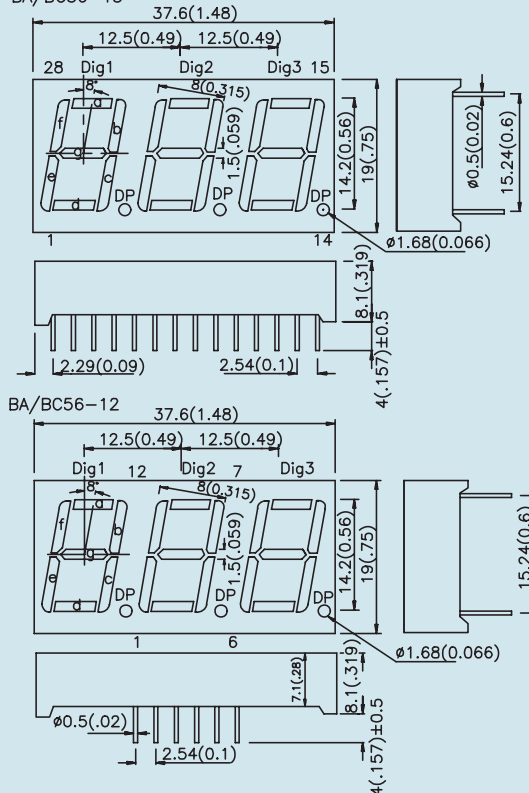
NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.

BA/BC56 Series

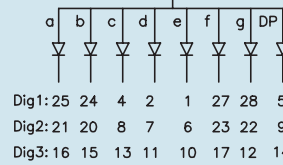
31

BA/BC56-11
BA/BC56-13



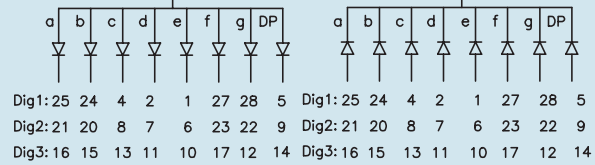
BA56-11

Dig1: 3,26
Dig2: 19
Dig3: 18



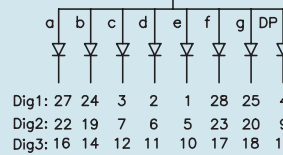
BC56-11

Dig1: 3,26
Dig2: 19
Dig3: 18



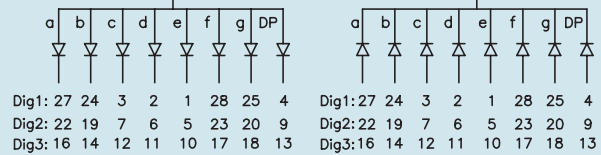
BA56-13

Dig1: 26
Dig2: 8,21
Dig3: 15



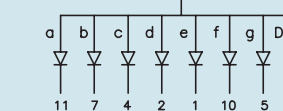
BC56-13

Dig1: 26
Dig2: 8,21
Dig3: 15



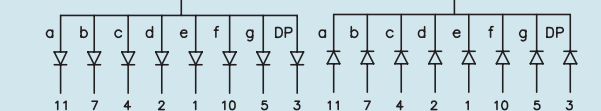
BA56-12

Dig1: 12
Dig2: 9
Dig3: 8



BC56-12

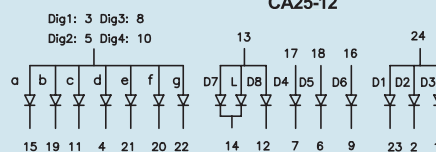
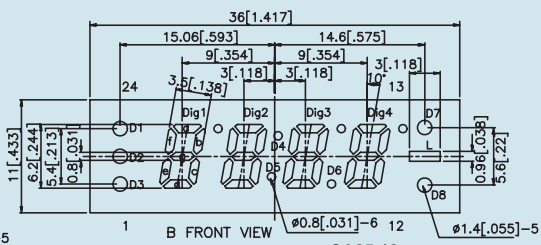
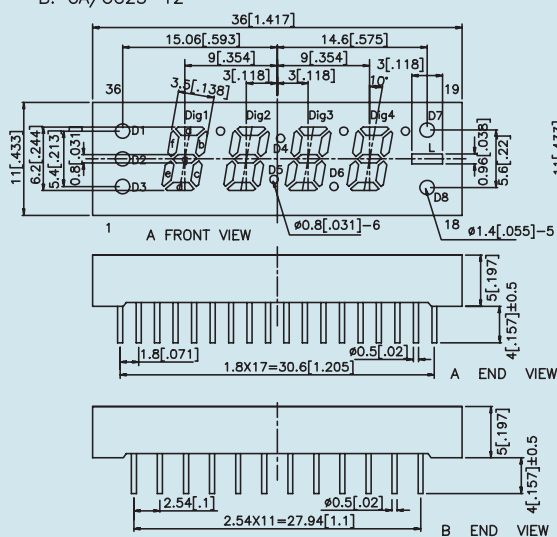
Dig1: 12
Dig2: 9
Dig3: 8



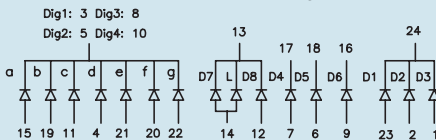
CA/CC25 Series

32

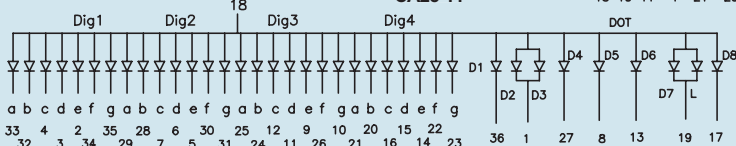
A: CA/CC25-11
B: CA/CC25-12



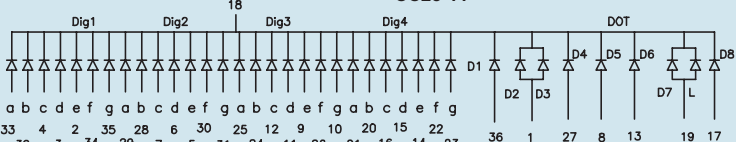
CC25-12



CA25-11



CC25-11

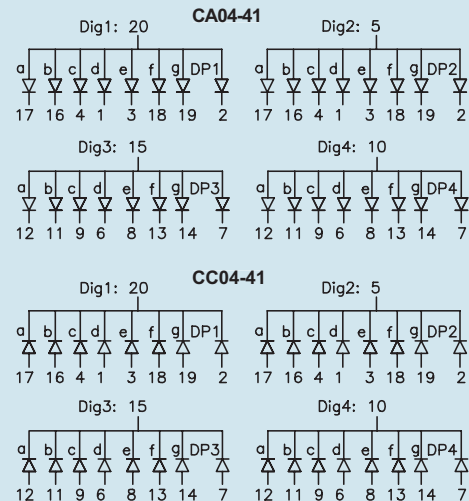
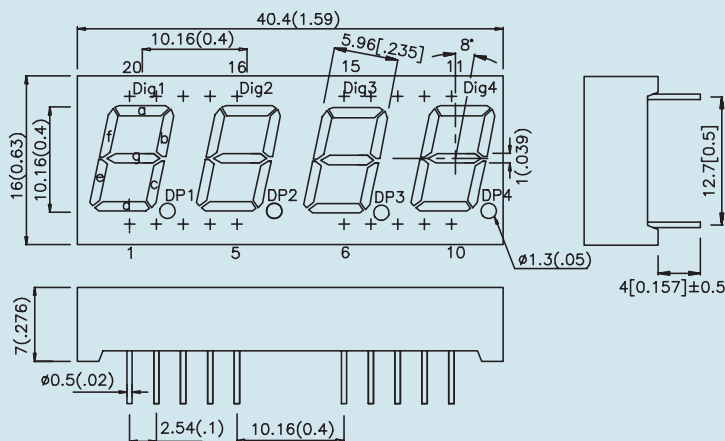


NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is 0.25mm(0.01") unless otherwise noted.

CA/CC04 Series

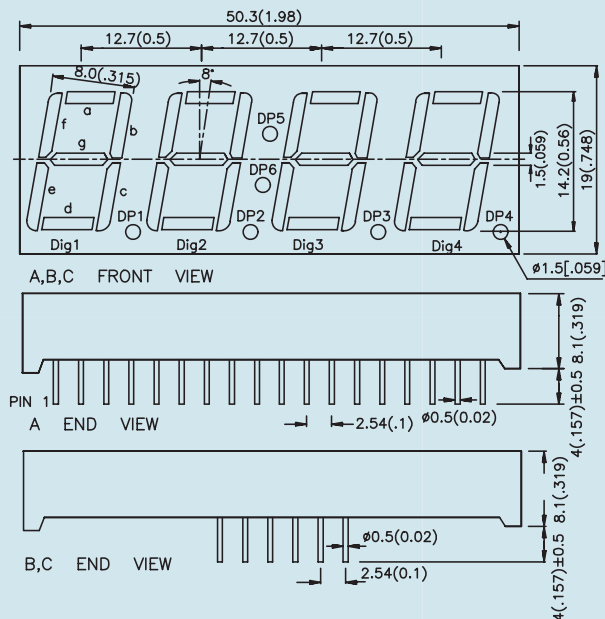
33



CA/CC56 Series

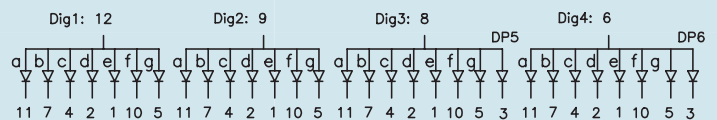
34

- A: CA/CC56-11
- B: CA/CC56-12
- C: CA/CC56-21



A,B,C SIDE VIEW

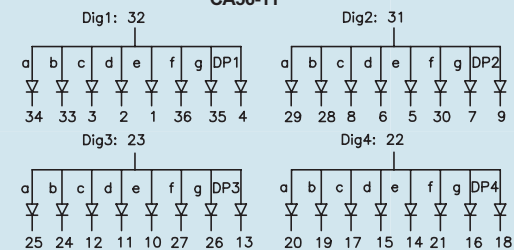
CA56-21



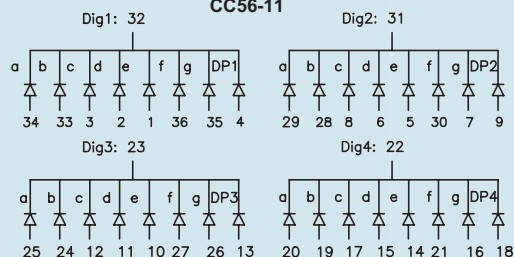
CC56-21



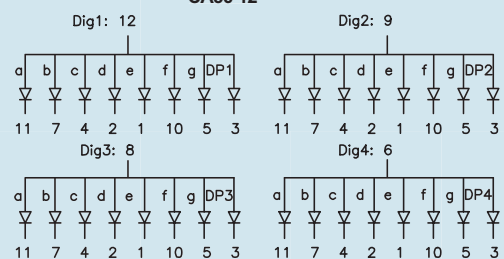
CA56-11



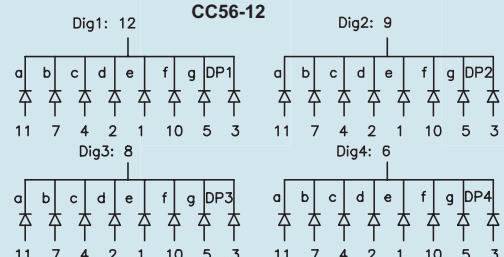
CC56-11



CA56-12



CC56-12

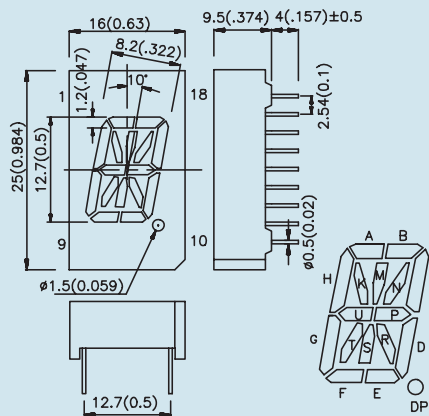


NOTES:

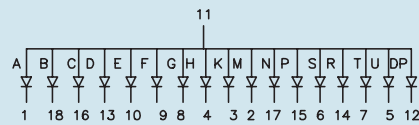
1. All dimensions are in millimeters(inches).
2. Tolerance is 0.25mm(0.01") unless otherwise noted.

PSA/PSC05 Series

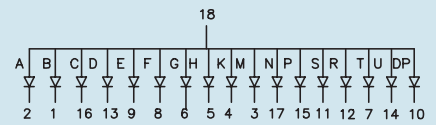
35



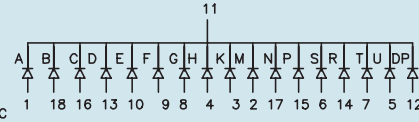
PSA05-11



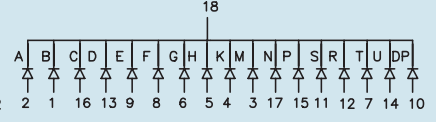
PSA05-12



PSC05-11

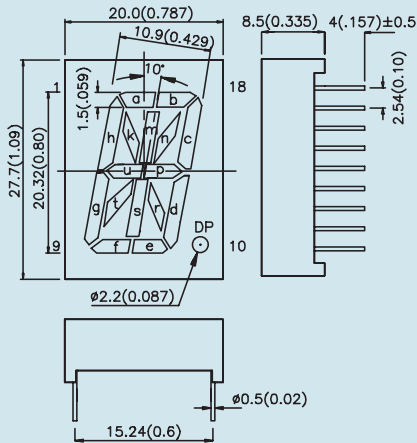


PSC05-12

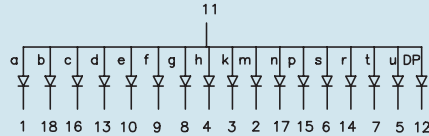


PSA/PSC08 Series

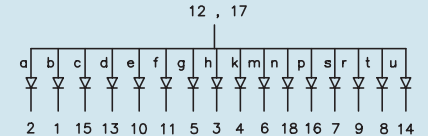
36



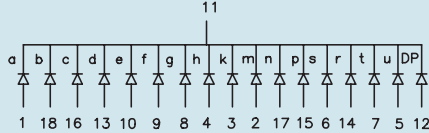
PSA08-11



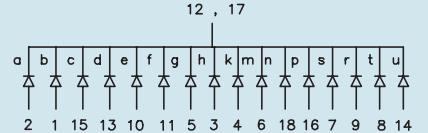
PSA08-12



PSC08-11

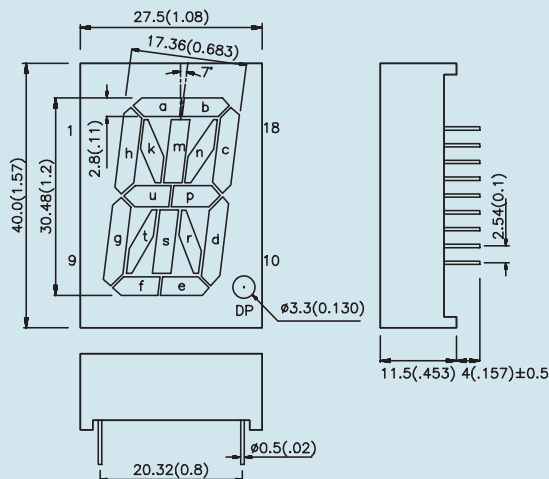


PSC08-12

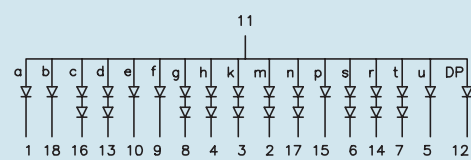


PSA/PSC12 Series

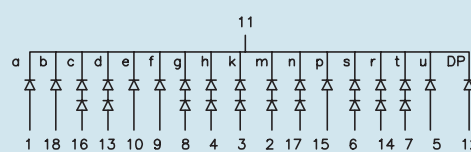
37



PSA12-11

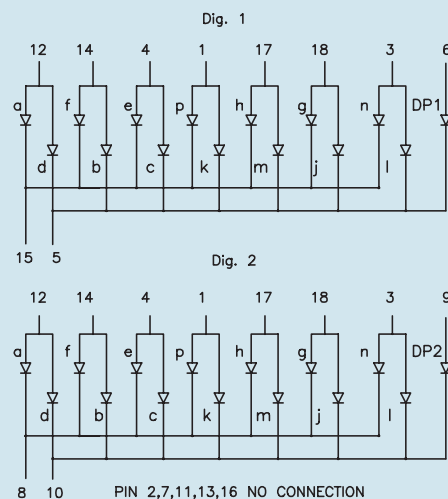
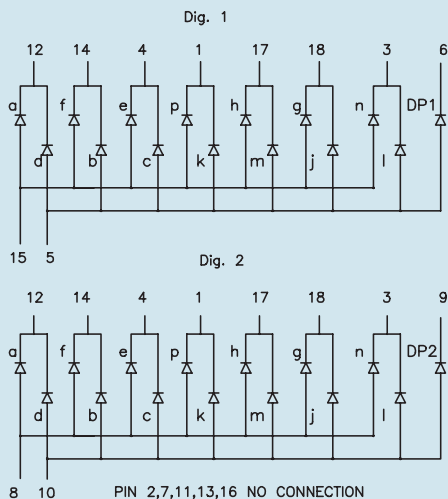
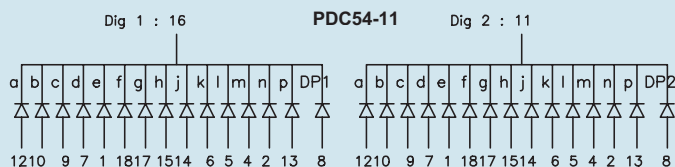
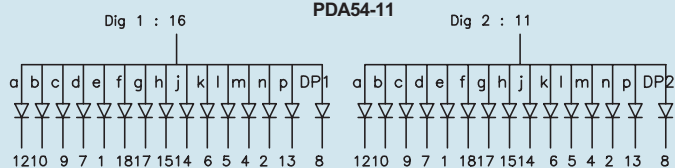
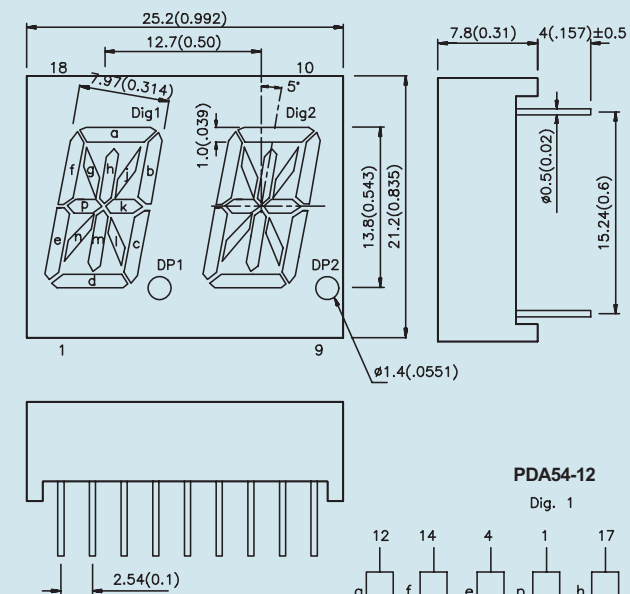
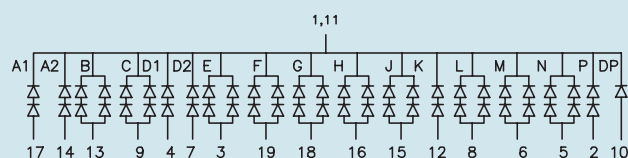
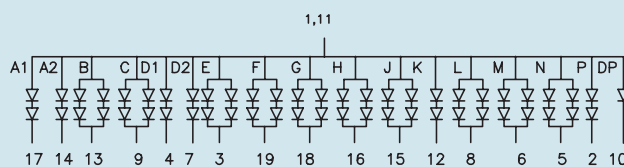
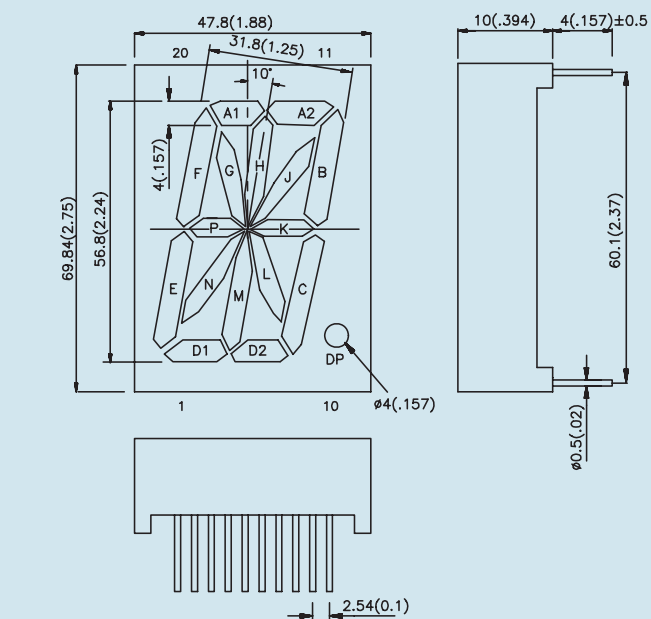


PSC12-11

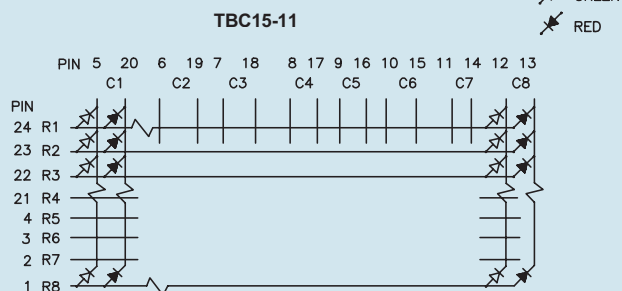
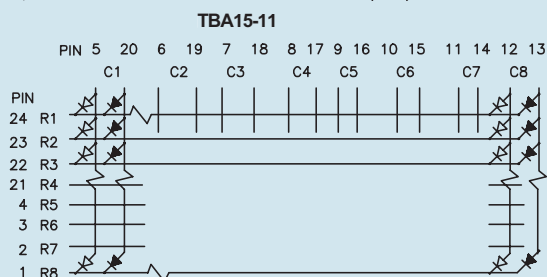
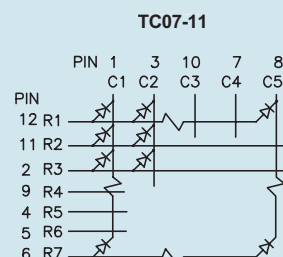


NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is 0.25mm(0.01") unless otherwise noted.

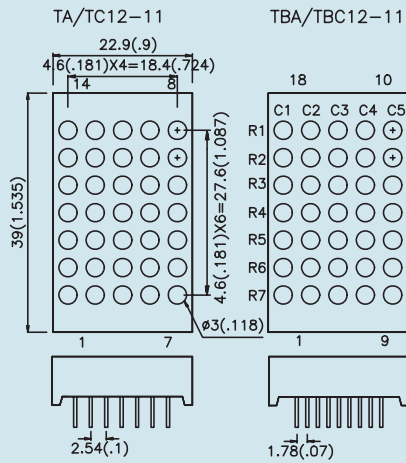


1. All dimensions are in millimeters(inches).
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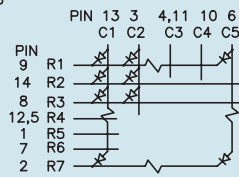
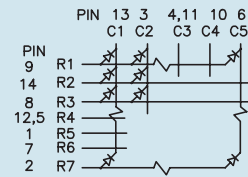
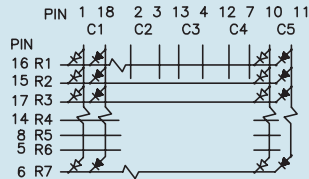
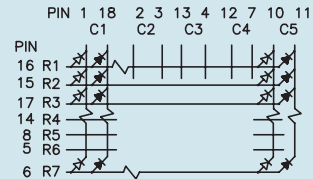
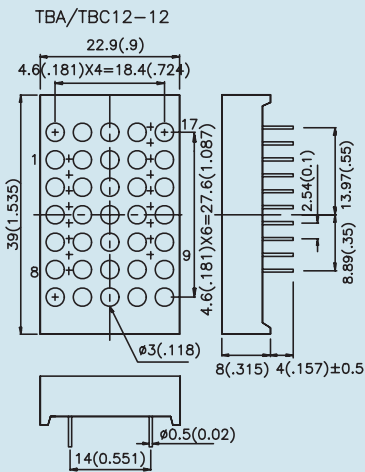


GREEN
RED

NOTES:
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8(.315) 4(.157)±0.5

TA12-11**TC12-11****TBA12-11****TBC12-11**GREEN
RED**TBA/TBC12-22**

TBA12-22

PIN 3 4 5 6 7
C1 C2 C3 C4 C5

PIN 20 R1
19 R2
18 R3
17 R4
16 R5
15 R6
14 R7

TBC12-22

PIN 3 4 5 6 7
C1 C2 C3 C4 C5

PIN 20 R1
19 R2
18 R3
17 R4
16 R5
15 R6
14 R7

GREEN
RED

TA/TC12-22

TBA12-12

PIN 5 7 4 1 12 16 13 9 14 10
C1 C2 C3 C4 C5

PIN 17 R1
2 R2
15 R3
3 R4
11 R5
6 R6
8 R7

TA12-22

PIN 13 3 4,11 10 6
C1 C2 C3 C4 C5

PIN 9 R1
14 R2
8 R3
5 R4
1 R5
7 R6
2 R7

PIN 12 NO CONNECTION

GREEN
RED

TBC12-12

PIN 5 7 4 1 12 16 13 9 14 10
C1 C2 C3 C4 C5

PIN 17 R1
2 R2
15 R3
3 R4
11 R5
6 R6
8 R7

TC12-22

PIN 13 3 4,11 10 6
C1 C2 C3 C4 C5

PIN 9 R1
14 R2
8 R3
5 R4
1 R5
7 R6
2 R7

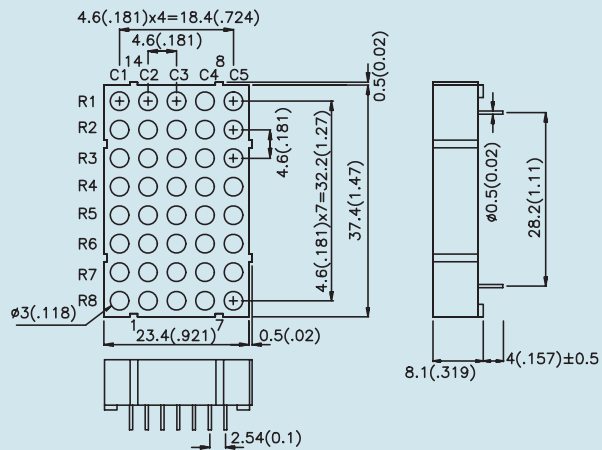
PIN 12 NO CONNECTION

NOTES:

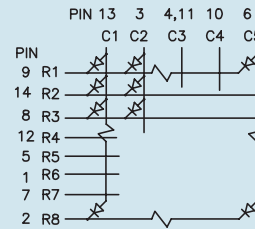
1. All dimensions are in millimeters(inches).
2. Tolerance is 0.25mm(0.01") unless otherwise noted.

22

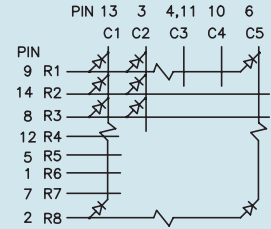
Downloaded from Arrow.com



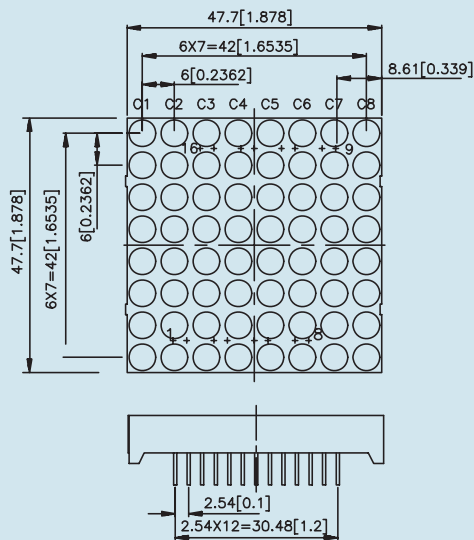
TA16-11



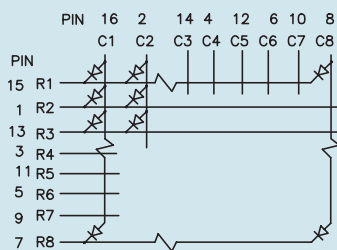
TC16-11



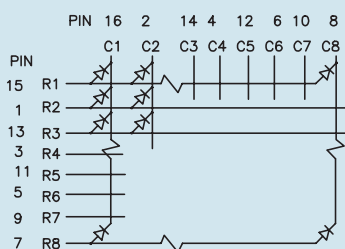
TA/TC18-21



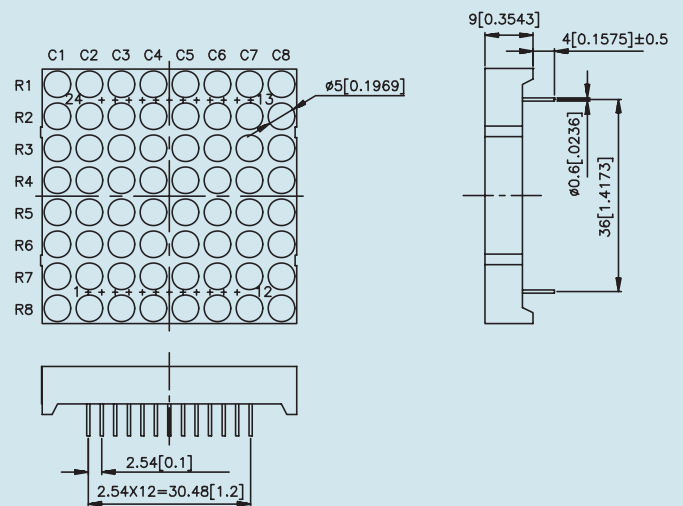
TA18-21



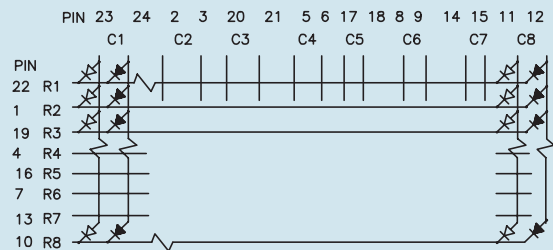
TC18-21



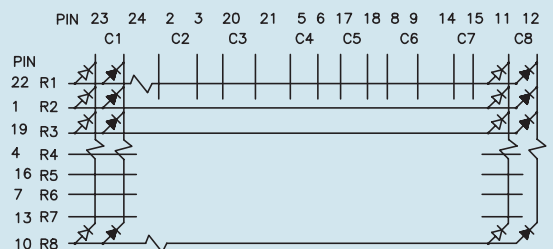
TBA/TBC18-21



TBA18-21



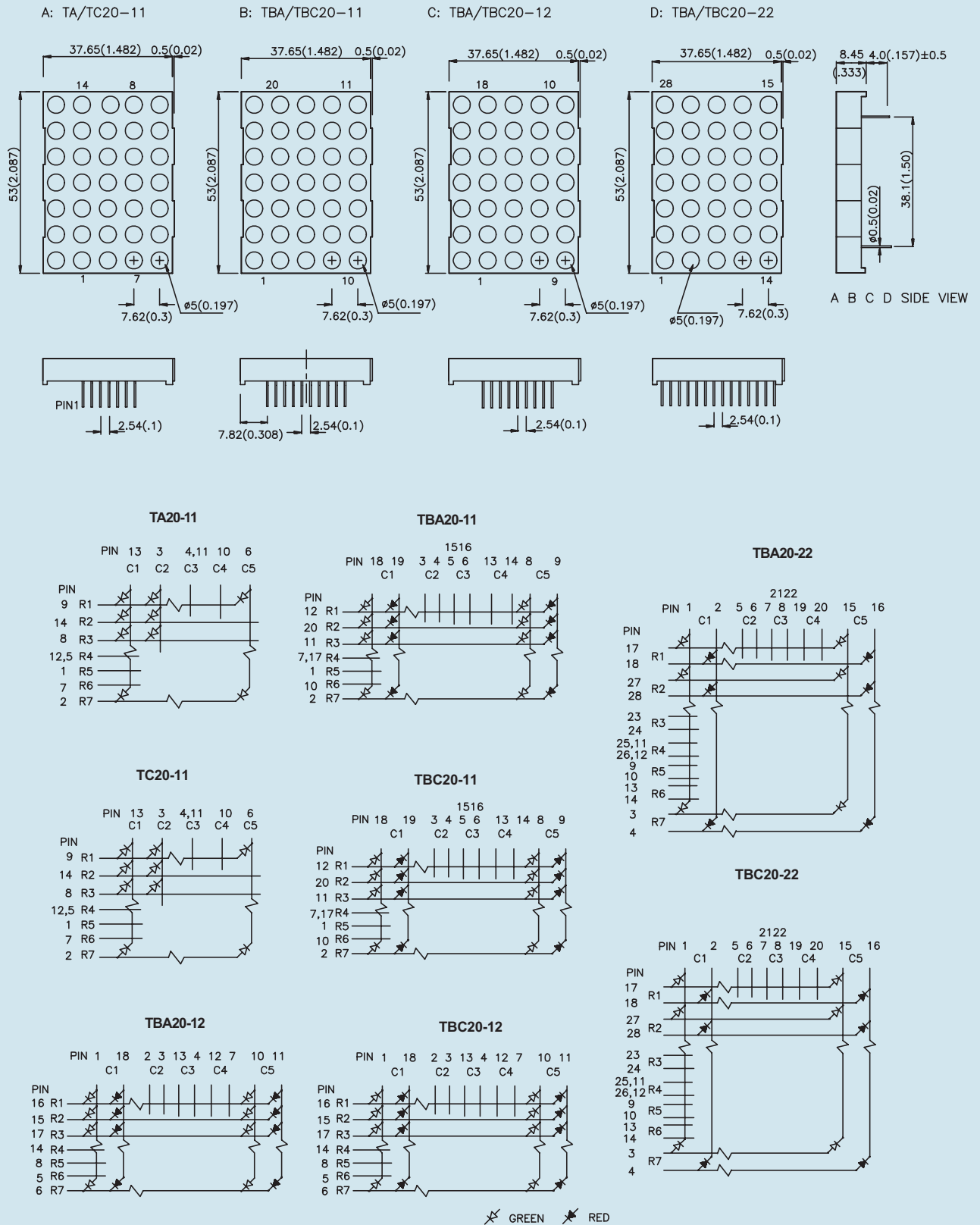
TBC18-21



GREEN
RED

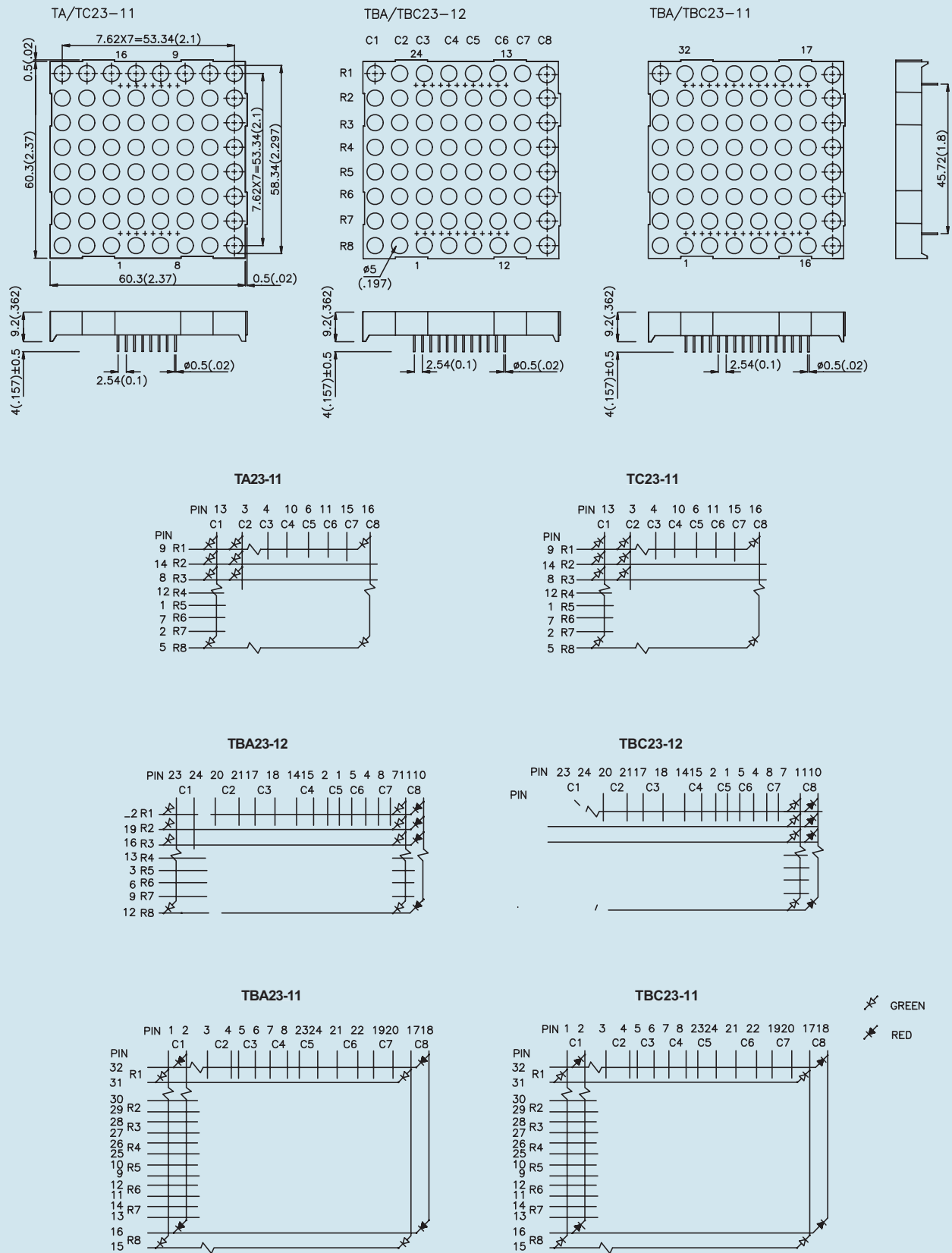
NOTES:

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2. Tolerance is 0.25mm(0.01") unless otherwise noted.



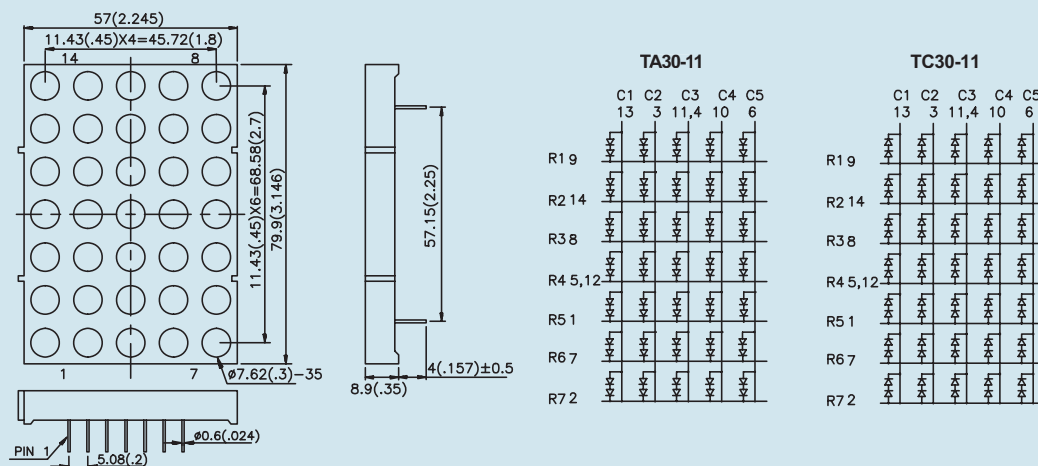
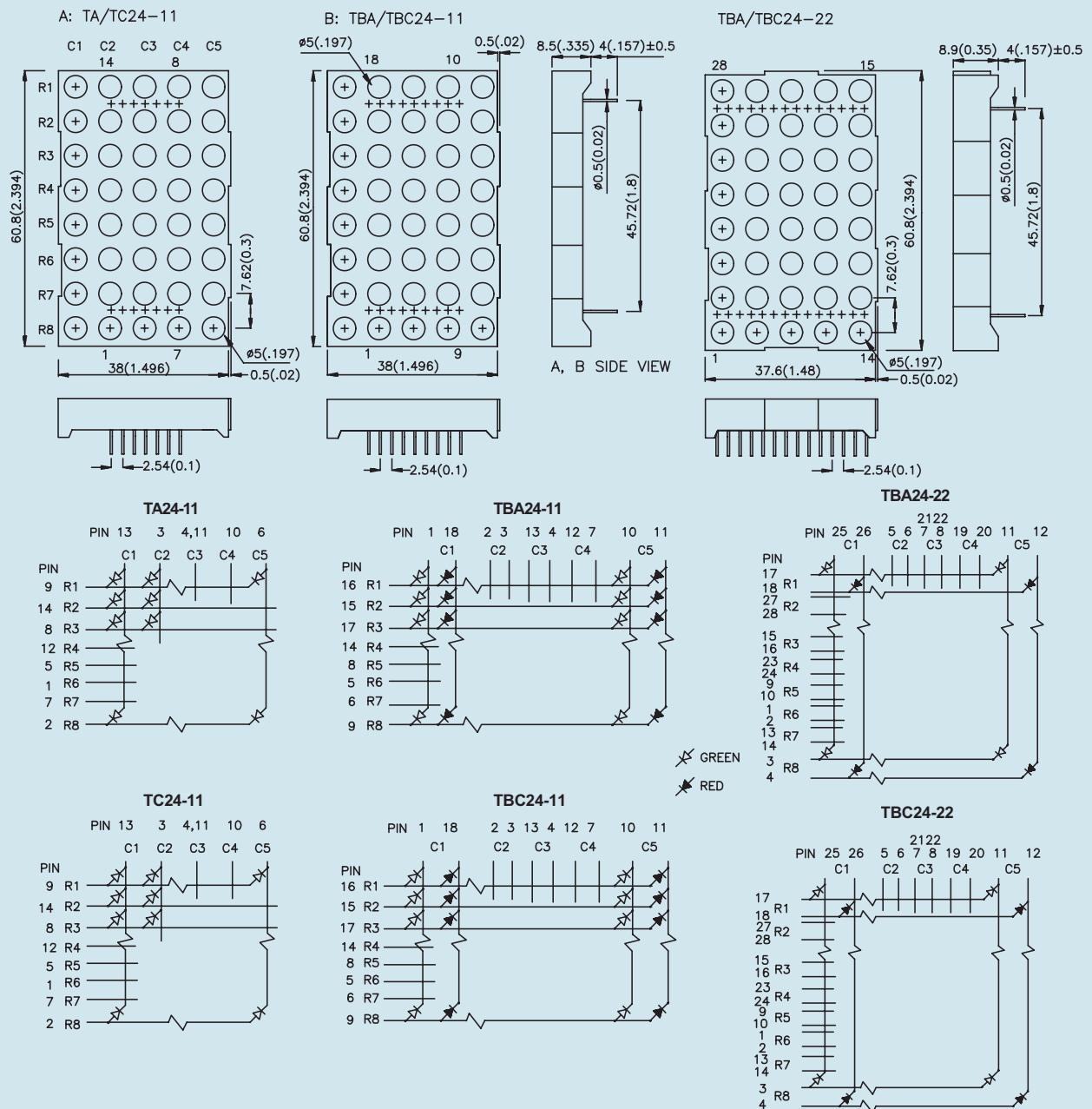
NOTES:

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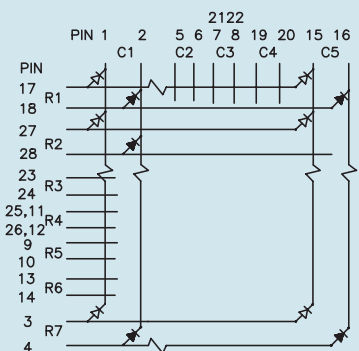
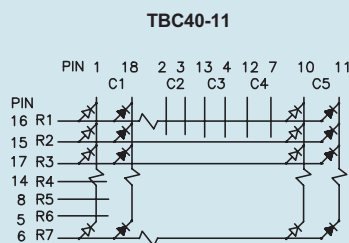
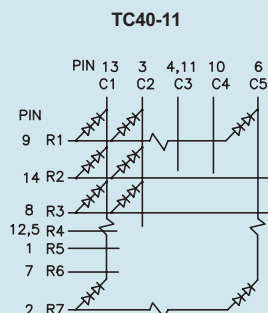
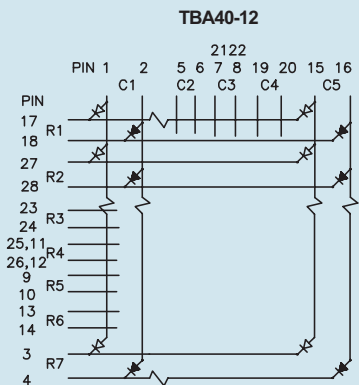
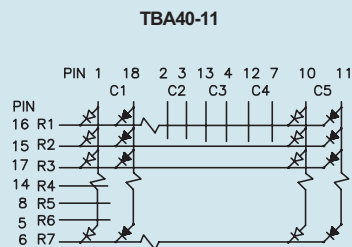
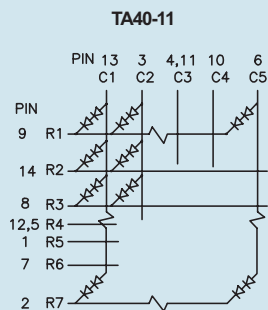
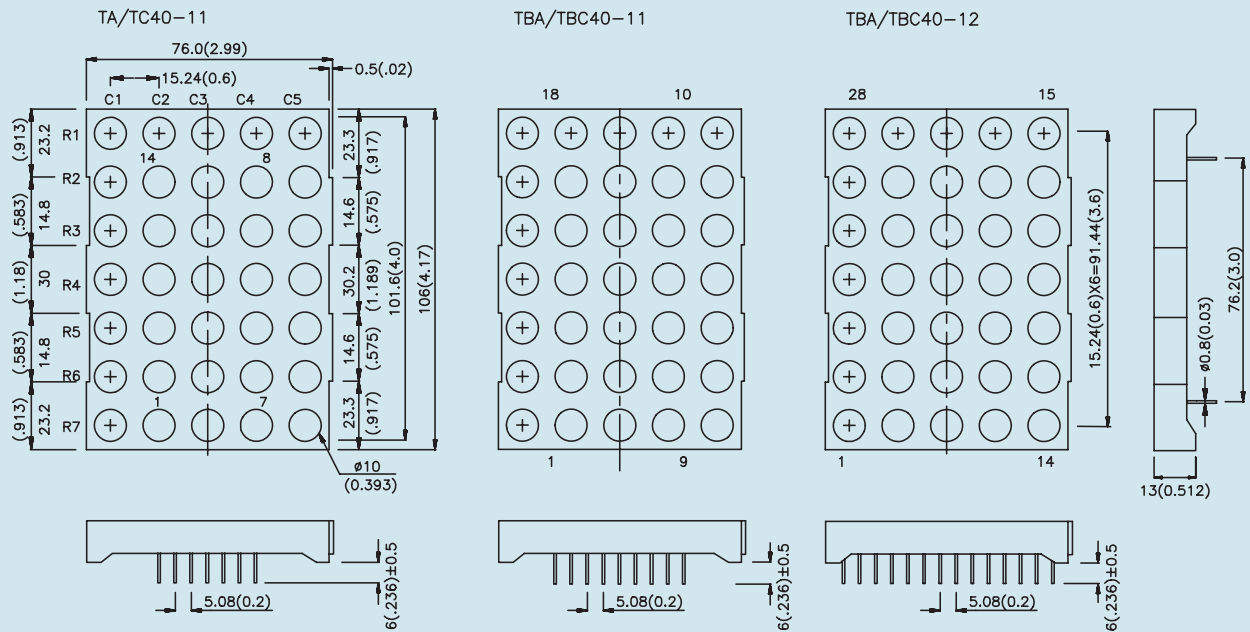
NOTES:

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2. Tolerance is 0.25mm(0.01") unless otherwise noted.



NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is 0.25mm(0.01") unless otherwise noted.



✗ FOR 2 RED CHIPS

✗ FOR 2 GREEN CHIPS

NOTES:

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