

Super-luminosity/High-luminosity Numeric LED

■ Super-luminosity/High-luminosity Numeric LED Figures shown below are values per segment.

(Ta=25°C)

Digit	Type	Character height (mm)	Type of display	Common pins	U (Red)		T (Red)		Outline dimensions	
					Model No.	Luminous intensity (mcd)	Model No.	Luminous intensity (mcd)	Page	Figure
						TYP.		TYP.		
1-digit	Mold Type	8.0		A			GL9T030	4.0	→	10
				K			GL8T030	4.0		
		10.16		A			GL9T040	4.25		9
				K			GL8T040	4.25		
		14.12		A			GL9T156	5.25		8
				K			GL8T156	5.25		
	20.32		A			GL9T08	2.2	6		
			K			GL8T08	2.2			
	25.4		A		GL9U100	35.0	GL9T100	9.5	→	4
			K		GL8U100	35.0	GL8T100	9.5		
	38.1		A		GL9U15	27.0			→	3
			K		GL8U15	27.0				
Substrate Type	76.0		A		GL9U30	(120)*			→	1
			K		GL8U30	(120)*				
Multi-digits	Mold Type	10.16		A			GL7T201	4.25	→	12
				K			GL6T201	4.25		
		8.0		A			GL3T422	1.5		→
	K					GL3T421	1.5			
	7.6		A			GL3T508D	1.5	→	21	
			K			GL3T507D	1.5			

*1 A: Anode common K: Cathode common * Production after order confirmation

* As for current conditions, refer to If in electro-optical characteristics

■ Absolute Maximum Ratings Figures shown below are values per segment.

(Ta=25°C)

Character height (mm)	Radiation color	Forward current I _F (mA)	Peak forward current I _{FM} ^{*1} (mA)	Derating factor (mA/°C)		Reverse voltage V _R (V)	Operating temperature T _{opr.} (°C)	Storage temperature T _{stg.} (°C)
				DC	Pulse			
8.0/10.16/14.12/20.32	T	20	100	0.36	1.82	5	-30 to +70	-40 to +80
25.4, 38.1, 76.0	U	20	150 ^{*2}	0.36	2.73	6	-30 to +70	-40 to +80
25.4, 38.1	T	20	100	0.36	1.82	5	-30 to +70	-40 to +80

*1 Duty ratio=1/10, Pulse width=0.1ms

*2 U type duty ratio=1/16, pulse width=0.1ms

■ Electro-optical Characteristics Figures shown below are values per segment.

(Ta=25°C)

Character height (mm)	Radiation color	Forward current V _F		Peak emission wavelength λ _p (nm) TYP.	Spectrum radiation bandwidth Δλ(nm) TYP.		I _F (mA)	Reverse current I _R (μA) MAX. V _R (V)	
		TYP.	MAX.						
8.0/10.16/14.12/20.32	T	1.7	2.2	660	20	10	10	4	
25.4, 38.1, 76.0	U	3.5	4.8	660	20	10	100	5	
25.4, 38.1	T	3.4	4.4	660	20	10	10	4	

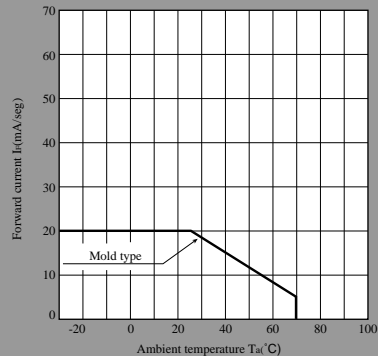
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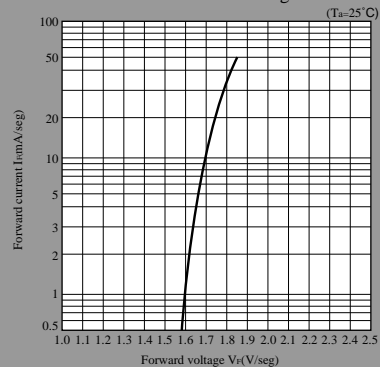
Numeric LED Characteristics Diagrams

T series

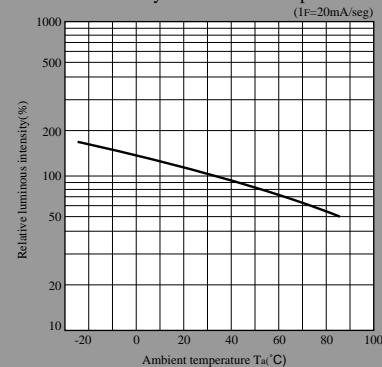
Forward Current Derating Curve



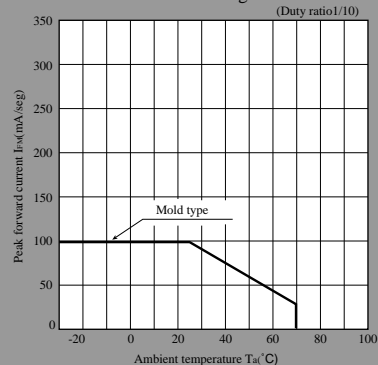
Forward Current vs. Forward Voltage*



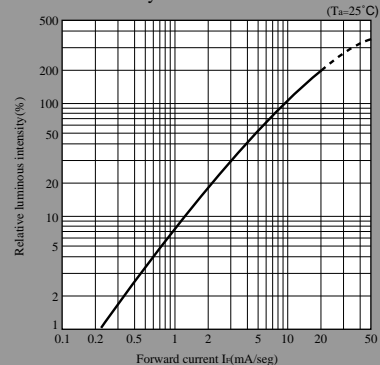
Luminous Intensity vs. Ambient Temperature



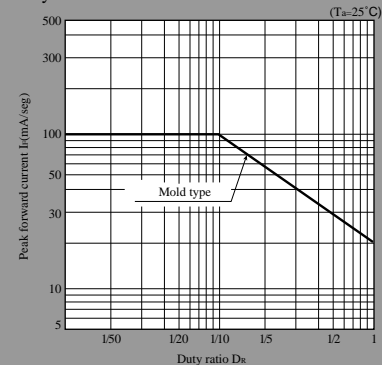
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current



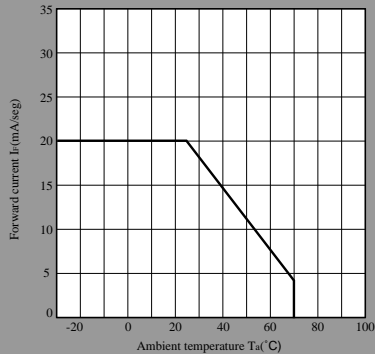
Duty Ratio vs. Peak Forward Current



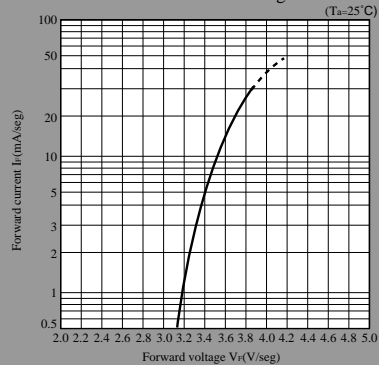
* In case of 25.4mm: value per 1segment 1chip

U series

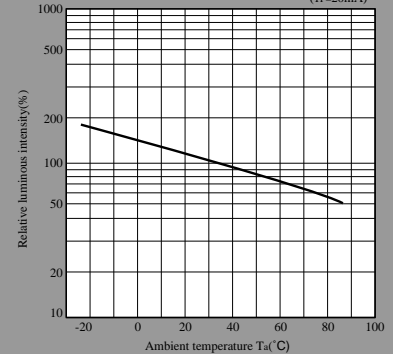
Forward Current Derating Curve



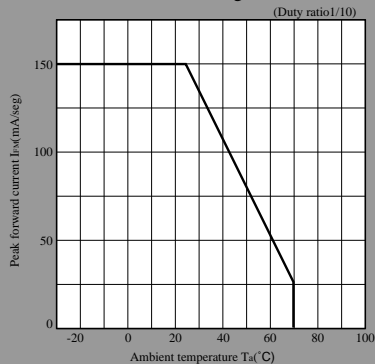
Forward Current vs. Forward Voltage* ($T_a=25^\circ\text{C}$)



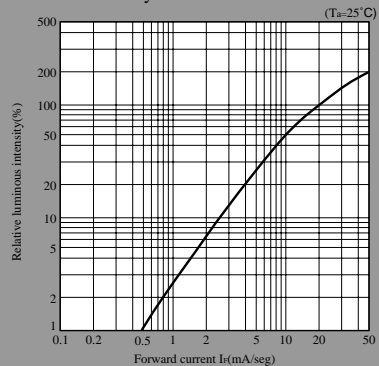
Luminous Intensity vs. Ambient Temperature ($I_f=20\text{mA}$)



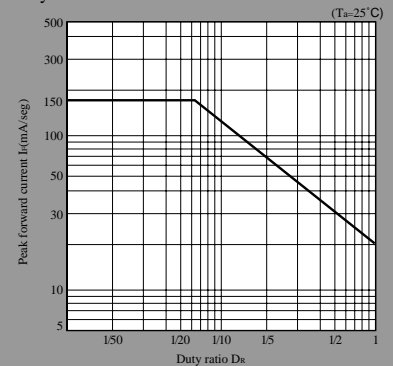
Peak Forward Current Derating Curve ($\text{Duty ratio}/10$)



Luminous Intensity vs. Forward Current ($T_a=25^\circ\text{C}$)



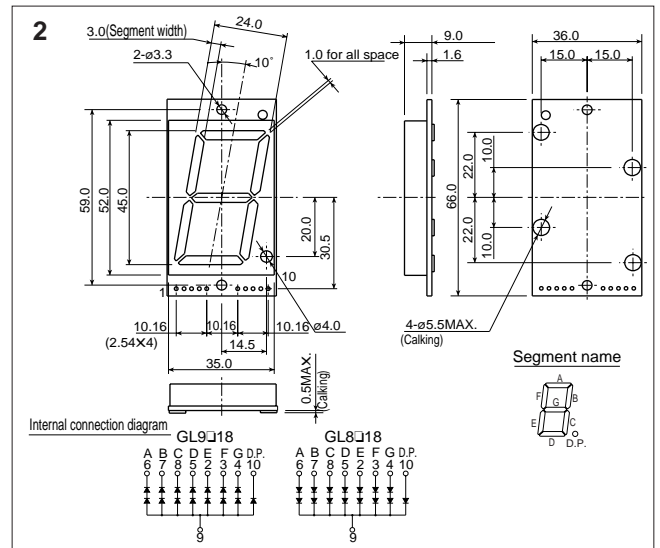
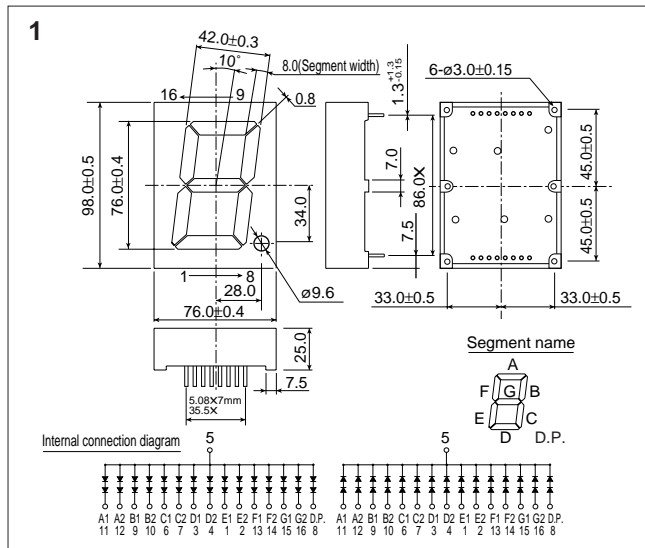
Duty Ratio vs. Peak Forward Current ($T_a=25^\circ\text{C}$)



* In case of 25.4/38.1/76.0mm: value per 1segment 1chip

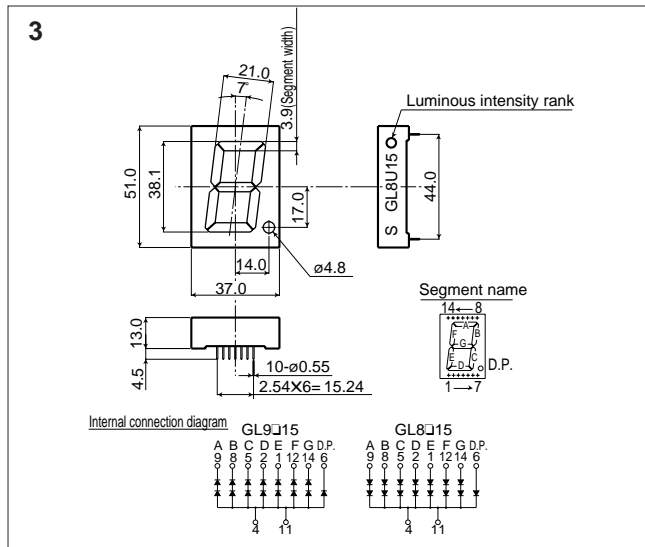
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Numeric LED Outline Dimensions(Unit:mm)

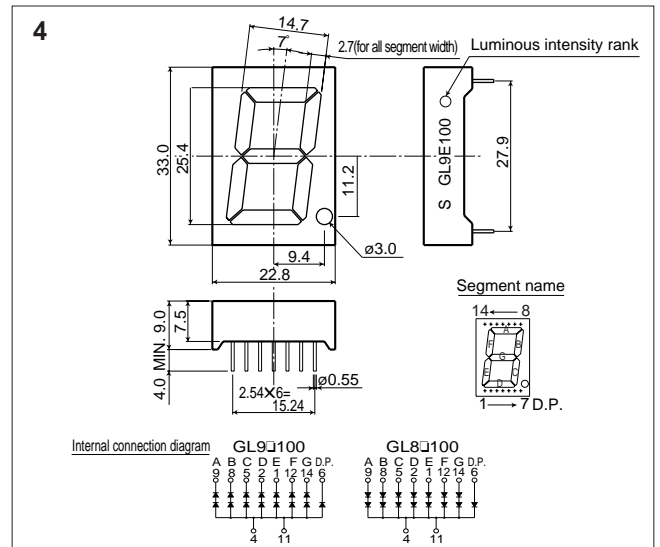


GL9□30 Series GL8□30 Series

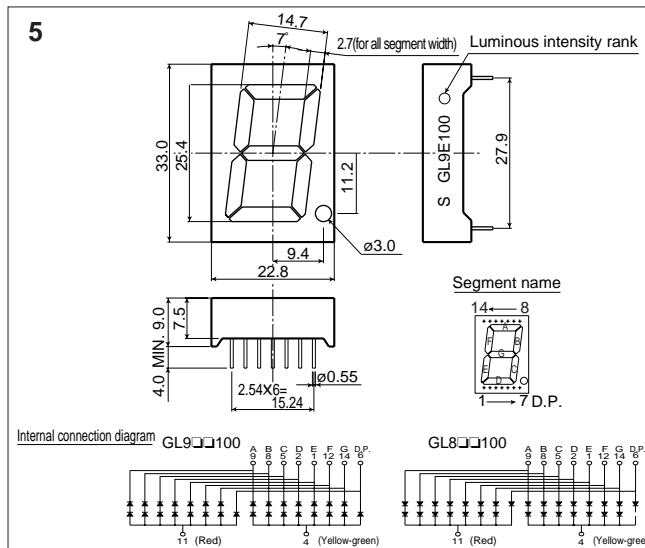
GL9□18 Series GL8□18 Series



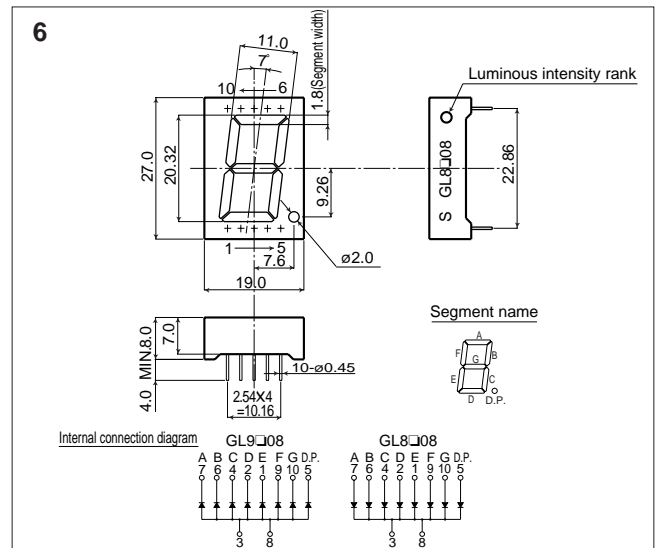
GL9□15 Series GL8□15 Series



GL9□100 Series GL8□100 Series



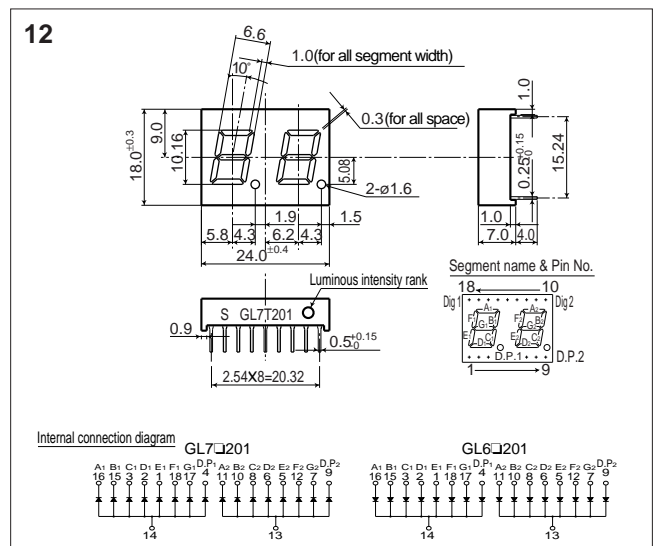
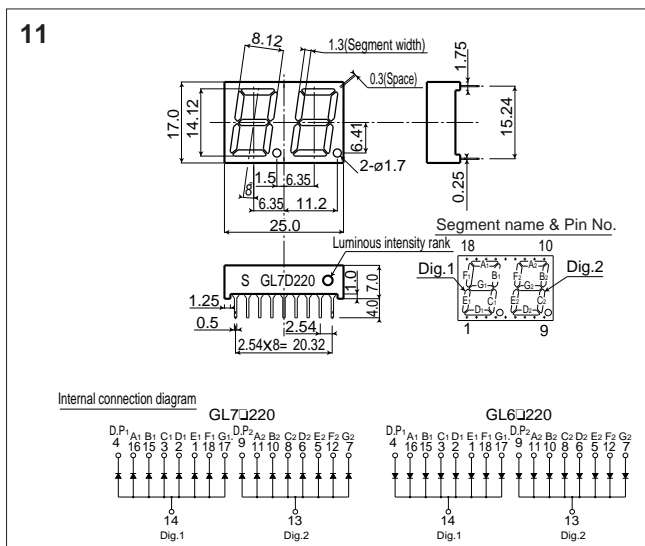
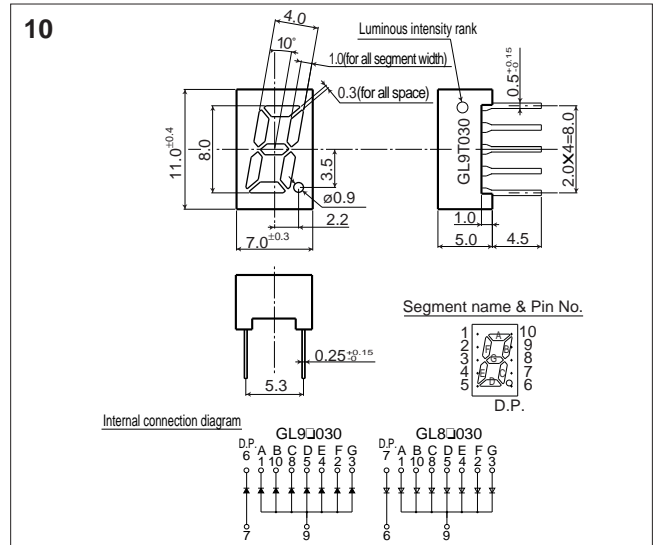
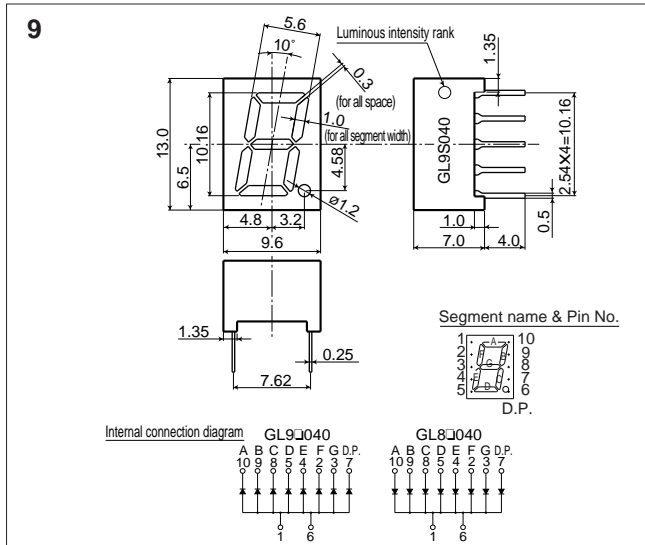
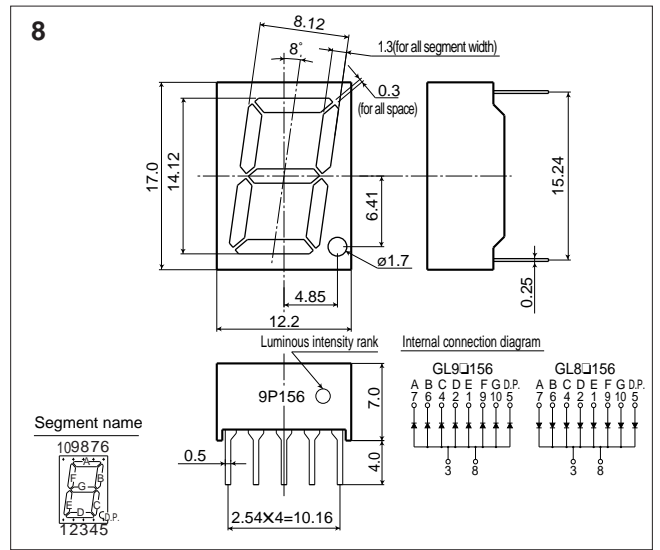
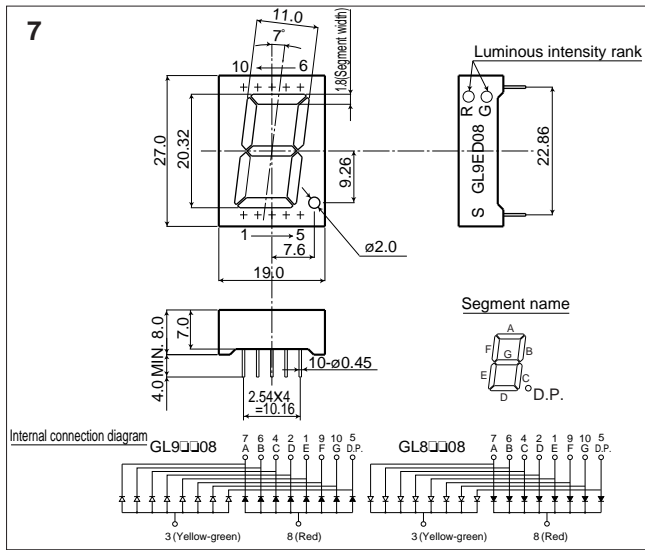
GL9□100 Series GL8□100 Series



GL9□08 Series GL8□08 Series

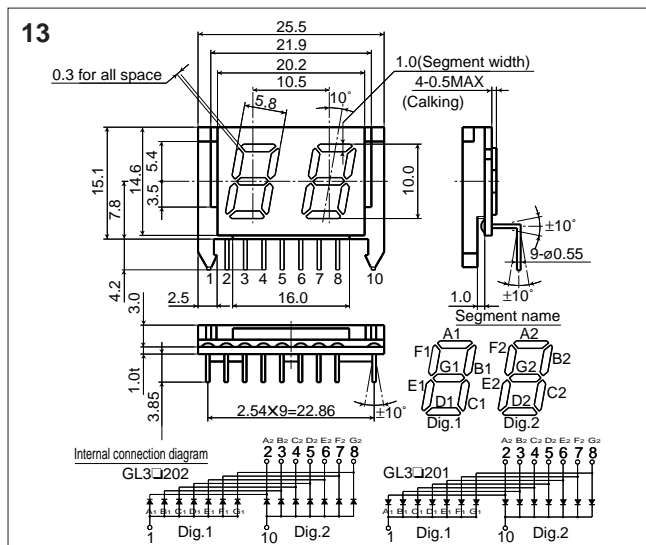
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Numeric LED Outline Dimensions(Unit:mm)

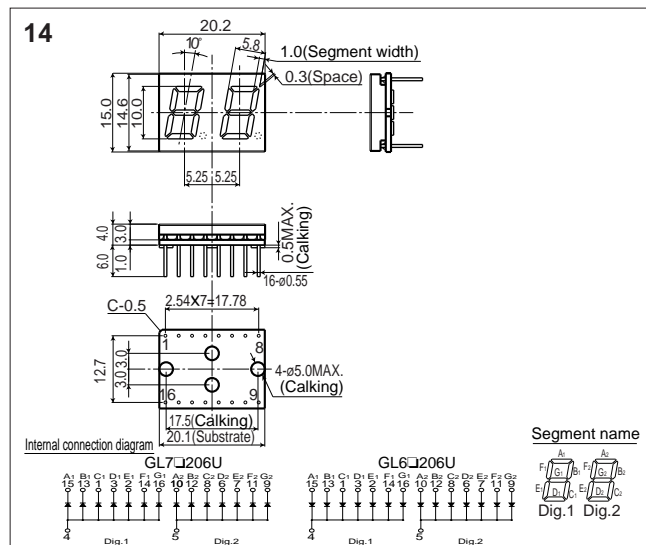


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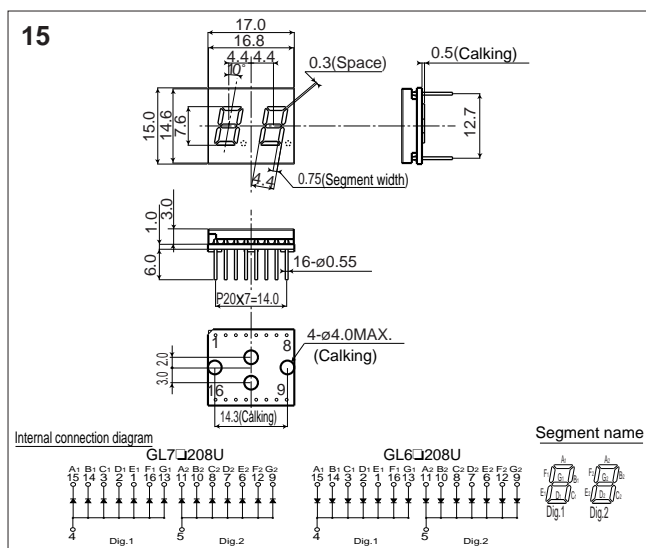
Numeric LED Outline Dimensions(Unit:mm)



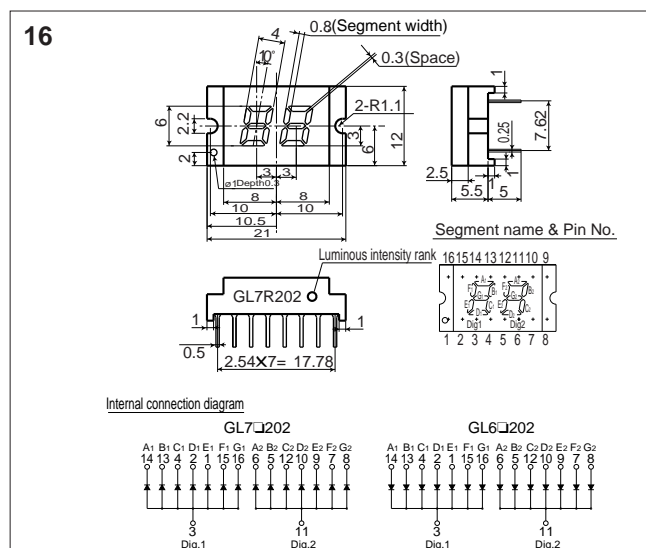
GL3□202 Series GL3□201 Series



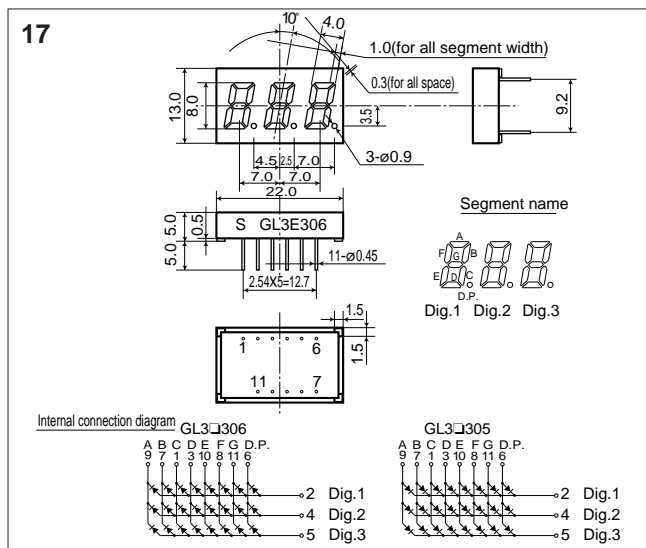
GL7□206U Series GL6□206U Series



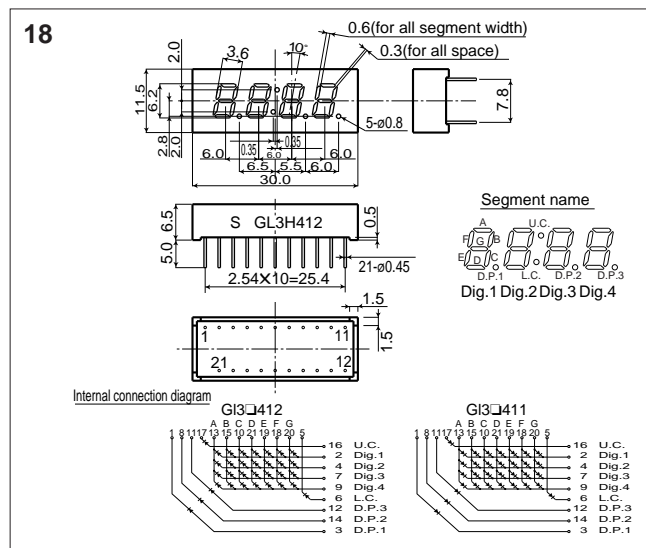
GL7□208U Series GL6□208U Series



GL7□202 Series GL6□202 Series



GL3□306 Series GL3□305 Series



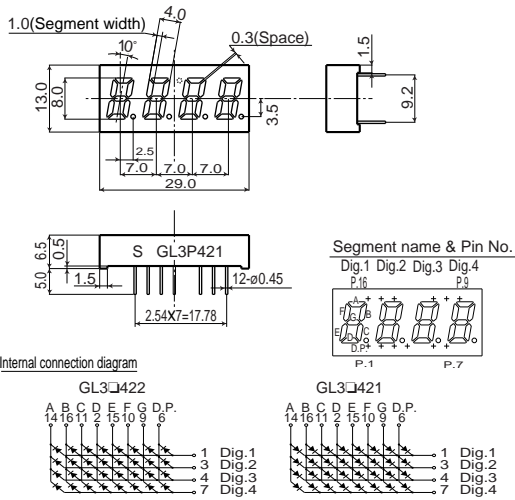
GL3□412 Series GL3□411 Series

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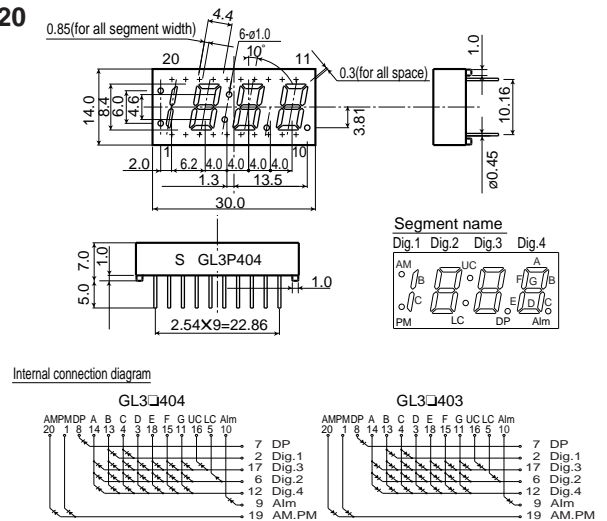
Numeric LED Outline Dimensions(Unit:mm)

19



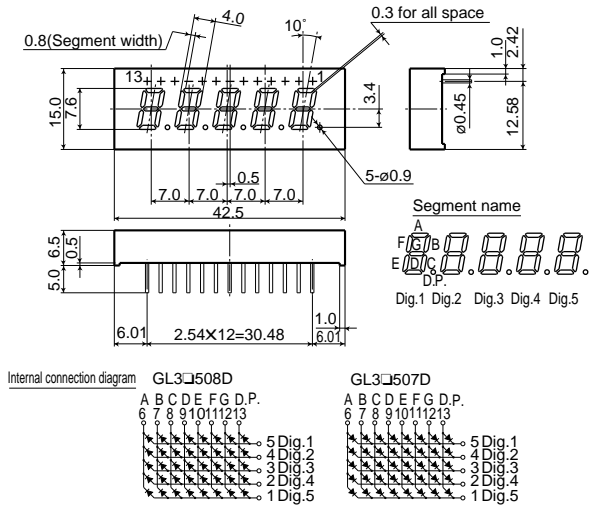
GL3□422 Series GL3□421 Series

20



GL3□404 Series GL3□403 Series

21



GL3□508D Series GL3□507D Series

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