TOD-329HBcB-N12-B-E

Dual Digit Display LED

Part Number	Chip		Shell Face Color	Segment Color
	Material	Source Color		
TOD-329HBcB-N12-B-E	InGaN	Hi-blue	Gray	White

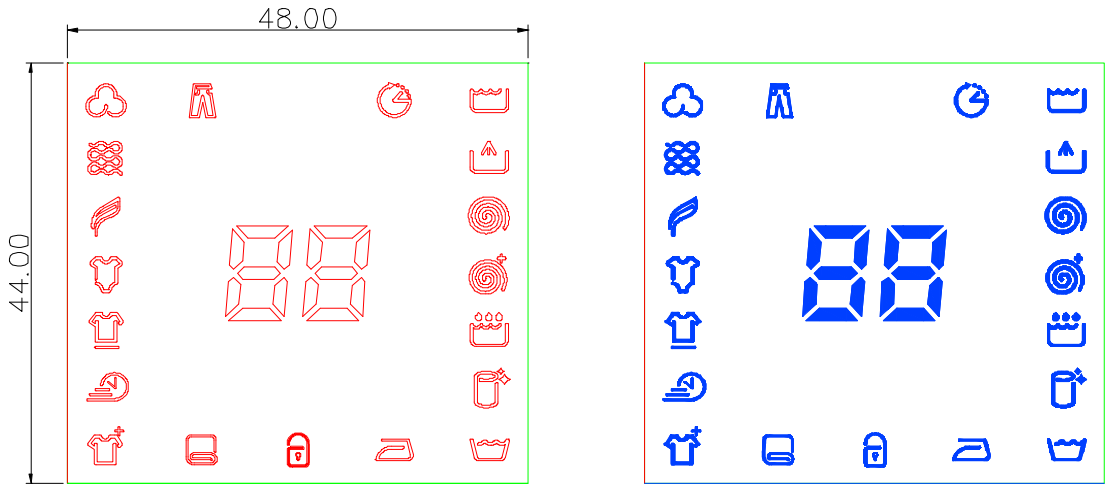
Features

- (0.39") 10.10mm digit height
- Common anode
- I.C. compatible
- Low power requirement
- RoHS compliant

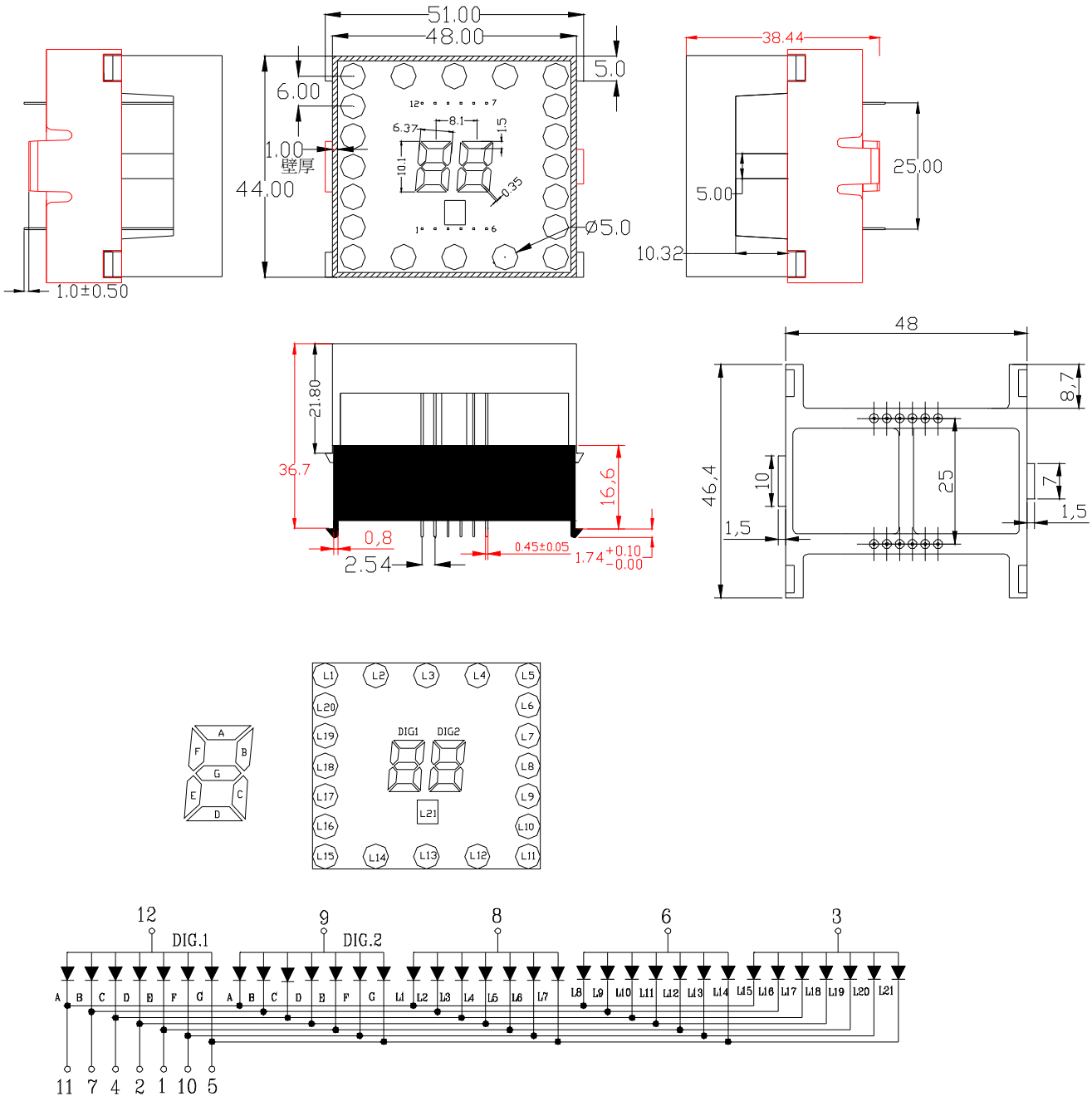
Applications

- Audio equipment
- Instrument panels
- Digital read out display

Package Dimensions & Internal Circuit Diagram

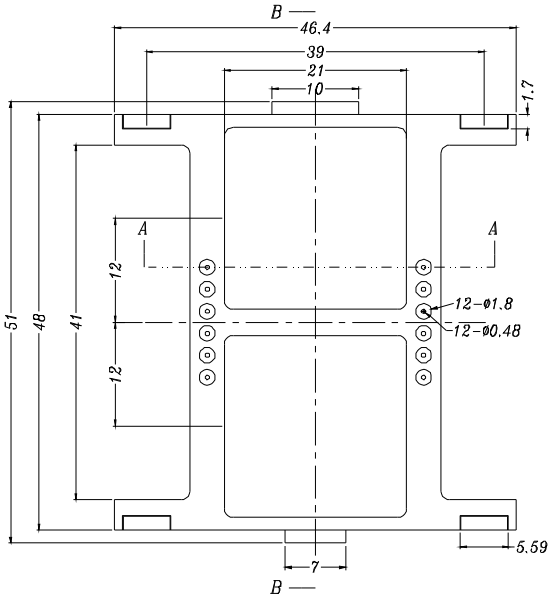


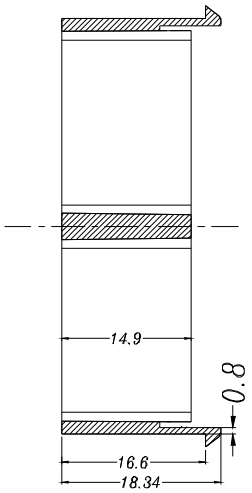
底色黑色，字节窗口透明



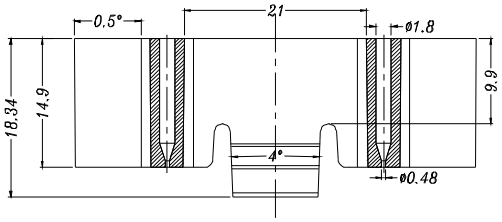
Notes:

1. All dimensions are in millimeters, tolerance: ±0.25 ; Angle: ±0.1° unless otherwise noted.
2. Specifications are subject to change without notice.

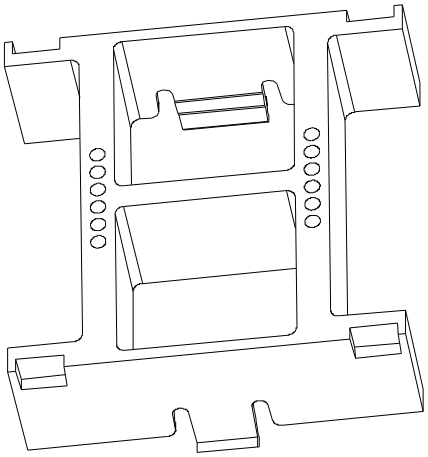


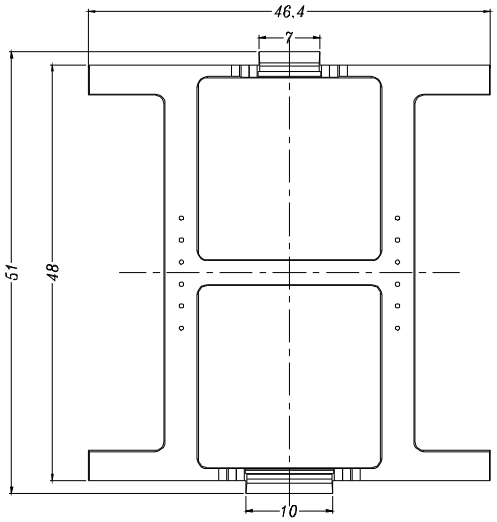


SECTION B-B



SECTION A-A





Absolute Maximum Rating @ Ta=25°C

Parameter	Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA
Power Dissipation	105	mW
Continuous Forward Current	20	mA
Recommend Operating Current	12	mA
Reverse Voltage	5	V
Operating Temperature Range	-25°C to +85°C	
Storage Temperature Range	-30°C to +85°C	
Lead-Free Solder Temperature (1/16 Inch Below Seating Plane)	260°C for 5 Sec	

Electrical / Optical Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition	Grade
Luminous Intensity Per Segment	IV	13.4	18.6	---	mcd	I_F=20mA	
Dominant Wavelength	λ_d	460	---	475	nm	I_F=20mA	
Spectral Line Half-Width	$\triangle\lambda$		26		nm	I_F=20mA	
Forward Voltage	V_F	--	2.8	3.2	V	I_F=20mA	
Reverse Current	I_R			20	μA	V_R=5V	
Luminous Intensity Matching Rate	Iv-m			2.0:1		I_F=20mA	

The DISPLAY's should be kept at 30°C or less and 60%RH or less. The DISPLAY's should be used with in a year

Reliability Test Project

Test Item	Test Condition	Result	Judgment Criteria
Consecutive Operating Life Test	I_F=30mA,T=25±5°C,t=24h	0/30	Forward voltage VF(V)=upper limit*1.2 Reverse leakage current IR(uA)=upper limit*2.0 Luminous intensity IV(mcd)=lower limit*0.7
High Temperature Storage Life Test	T=85±5°C,t=24h	0/12	
Lower Temperature Storage Life Test	T=-40±5°C,t=24h	0/12	
High Temperature & High Humidity Storage Life Test	T=85±5°C,RH=90%±5%,t=24h	0/12	
Temperature Cycle Test	-35±5℃*30min~25±5℃*10min ~85±5℃*30min~25±5℃*10min 20 times	0/12	
Thermal Shock Test	85±5°C30min~-40±5°C30min 50 times	0/12	
Solderability Test	T=265±5°C t=3s	0/12	Steeped part≥95%
Salt Spray Test	Ta=35±5°C NaCl=5% PH=6.5~7.2 h=1-2L 48H	0/12	The end is 2mm rusty