

Features

- Carbon element
- Red, orange, green, amber and white LED colors
- Center detent option
- Assortment of resistance tapers
- Various travel lengths
- Various lever sizes



PTL Series Slide Potentiometer w/LED

Electrical Characteristics

Standard Resistance Range1K ohms to 1 megohm Standard Resistance Tolerance...±20 %

60 mm Travel......30 ohms max. Insulation Resistance @ 250 VDC

......100 megohms min. Dielectric Withstanding Voltage

 20 mm Travel
 0.05 watt

 30 mm Travel
 0.1 watt

 45 mm Travel
 0.125 watt

 60 mm Travel
 0.2 watt

Power Rating - Audio

Environmental Characteristics

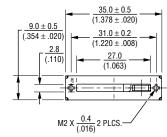
Operational Life	15,000 cycles
TR Shift	±15 %
Operating Temperatu	re Range
	10 °C to +55 °C
Resistance to Solder	Heat±5 %

Mechanical Characteristics

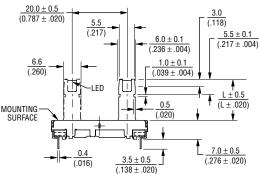
Manual300 °C ±5 °C for 3 sec. Wave260 °C ±5 °C for 5 sec. WashNot recommended

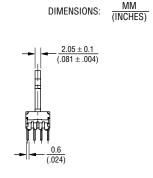
Product Dimensions

20 mm Length of Travel



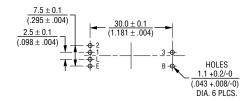
Lever Length
<u>10.0</u> (.394)
15.0 (.591)
<u>19.0</u> (.748)







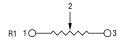
Mounting Hole Detail



Standard Resistance Table

Resistance (Ohms)	Resistance Code		
1,000	102		
2,000	202		
5,000	502		
10,000	103		
20,000	203		
50,000	503		
100,000	104		
200,000	204		
500,000	504		
1,000,000	105		

Schematic



^{*}RoHS Directive 2002/95/EC Jan 27, 2003 including Annex. Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

Applications

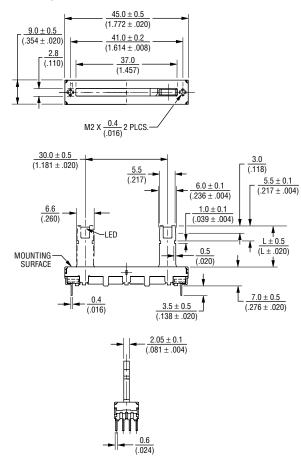
- Mixing consoles
- Drum machines
- Keyboards and synthesizers
- Equalizers

PTL Series Slide Potentiometer w/LED

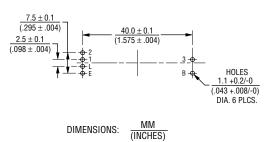
BOURNS®

Product Dimensions

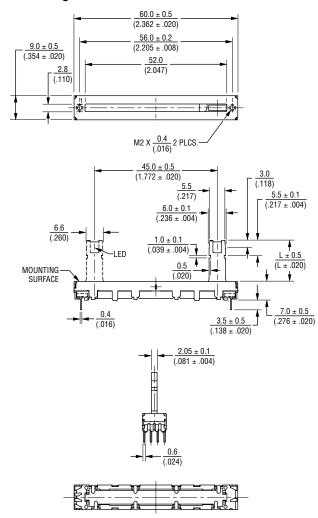
30 mm Length of Travel



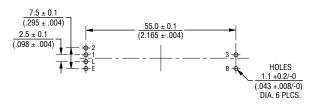
Mounting Hole Detail



45 mm Length of Travel



Mounting Hole Detail

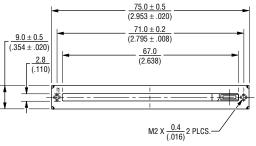


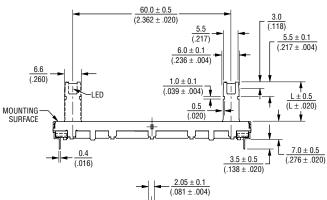
PTL Series Slide Potentiometer w/LED

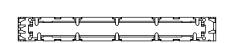
BOURNS®

Product Dimensions

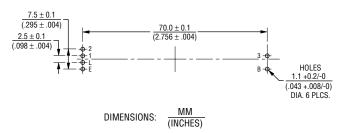
60 mm Length of Travel



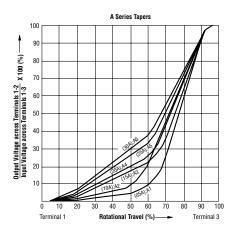


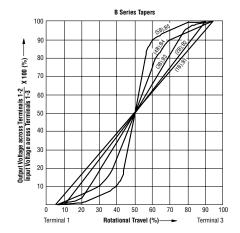


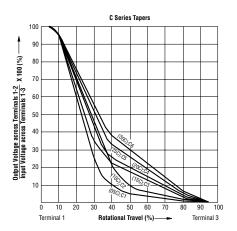
Mounting Hole Detail



Tapers







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LED Characteristics

Emitter Color	Item	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Red	Forward Voltage	V _F	I _F = 20 mA		2.1	2.5	V
	Luminous Intensity	ΙV		0.3	0.6		mcd
	Peak Emission Wavelength	λρ			660		nm
	Dominant Wavelength	λ _d			643		nm
	Spectral Line Half Width	Δ_{λ}			20		nm
Orange	Forward Voltage	VF	I _F = 20 mA		2.2	2.5	V
	Luminous Intensity	ΙV		1.5	3.0		mcd
	Peak Emission Wavelength	λp			610		nm
	Dominant Wavelength	λ _d			605		nm
	Spectral Line Half Width	Δ_{λ}			35		nm
Green	Forward Voltage	VF	I _F = 20 mA		2.1	2.5	V
	Luminous Intensity	ΙV		0.6	1.2		mcd
	Peak Emission Wavelength	λp			530		nm
	Dominant Wavelength	λd			35		nm
	Spectral Line Half Width	Δ_{λ}			160		nm
Amber	Forward Voltage	VF	I _F = 20 mA		2.1	2.6	V
	Luminous Intensity	ΙV			5.0		mcd
	Peak Emission Wavelength	λp			585		nm
	Dominant Wavelength	λd		582	-	595	nm
	Spectral Line Half Width	Δ_{λ}			35		nm
White	Forward Voltage	VF	I _F = 20 mA		3.5	4	V
	Luminous Intensity	lγ			300.0	_	mcd
	Peak Emission Wavelength	λp			520		nm
	Dominant Wavelength	λ _d		460	-	470	nm
	Spectral Line Half Width	Δλ			35		nm

How To Order

Circuit

