

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
 0.025 watt

 30 mm Travel
 0.05 watt

 45 mm Travel
 0.06 watt

 60 mm Travel
 0.1 watt

 Slider Noise
 200 mV max

Environmental Characteristics

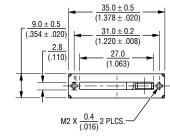
Operational Life	15,000 cycles
TR Shift	±15 %
Operating Temperature	Range
	-10 °C to +55 °C
Resistance to Solder He	eat±5 %

Mechanical Characteristics

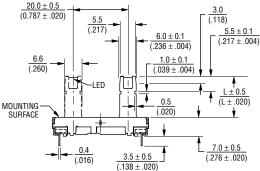
Manual300 °C ±5 °C for 3 sec. Wave260 °C ±5 °C for 5 sec. WashNot recommended

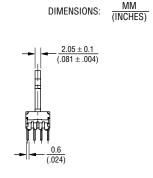
Product Dimensions

20 mm Length of Travel



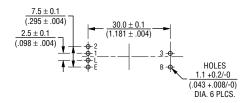
Lever Length
<u>10.0</u> (.394)
15.0 (.591)
19.0 (.748)







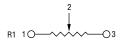
Mounting Hole Detail



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

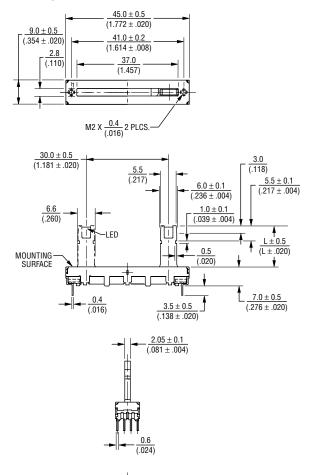
- Mixing consoles
- Drum machines
- Keyboards and synthesizers
- Equalizers

PTL Series Slide Potentiometer w/LED

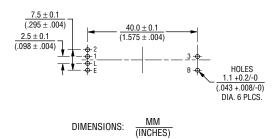
BOURNS®

Product Dimensions

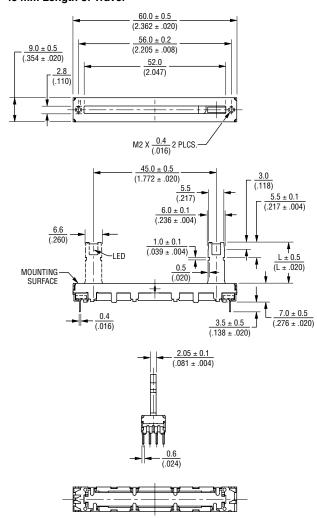
30 mm Length of Travel



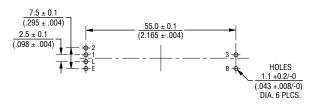
Mounting Hole Detail



45 mm Length of Travel



Mounting Hole Detail

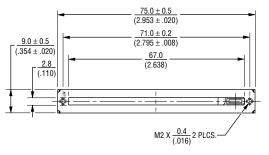


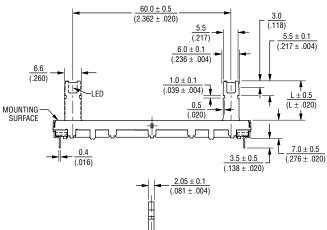
PTL Series Slide Potentiometer w/LED

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Product Dimensions

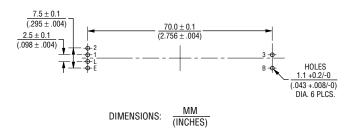
60 mm Length of Travel



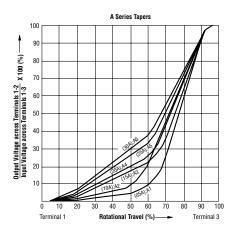


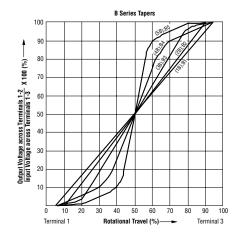


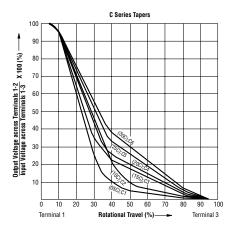
Mounting Hole Detail



Tapers







PTL Series Slide Potentiometer w/LED

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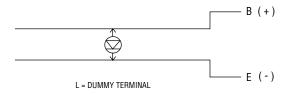
LED Characteristics

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	λp			660		nm
	Dominant Wavelength	λd			643		nm
	Spectral Line Half Width	Δ_{λ}			20		nm
Orange	Forward Voltage	VF	IF = 20 mA		2.2	2.5	V
	Luminous Intensity	ΙV		1.5	3.0		mcd
	Peak Emission Wavelength	λp			610		nm
	Dominant Wavelength	λd			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	lV		0.6	1.2		mcd
	Peak Emission Wavelength	λp			530		nm
	Dominant Wavelength	γd			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	١٧			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	<u> </u>	3.5	4	V
	Luminous Intensity	ΙV		<u> </u>	300.0		mcd
	Peak Emission Wavelength	λ _p			520		nm
	Dominant Wavelength	λd		460	-	470	nm
	Spectral Line Half Width	Δ_{λ}			35		nm

How To Order

Resistance Taper (See Taper Charts) —— Taper Series followed by Curve Number

Circuit



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

PTL45-15R0-202B2 PTL60-10R0-203B2 PTL30-10G1-204B2 PTL20-10G1-204B2 PTL60-10O0-105B2 PTL60-10O1-105B2 PTL20-10G0-204B2 PTL30-10G0-204B2 PTL45-15R1-202B2 PTL60-10R1-203B2 PTL45-19O1-105B2 PTL20-19G1-102B2 PTL30-15O1-104B2 PTL20-15O1-104B2 PTL30-19G1-102B2 PTL60-15G0-202B2 PTL60-15G1-202B2 PTL45-19O0-105B2 PTL20-15O0-104B2 PTL30-19G0-102B2 PTL20-19G0-102B2 PTL30-15O0-104B2 PTL30-15R1-103B2 PTL30-15G0-104B2 PTL20-15R1-103B2 PTL20-15G0-104B2 PTL45-10R0-105B2 PTL20-10O0-204B2 PTL30-10O0-204B2 PTL45-19G0-105B2 PTL20-15R0-103B2 PTL30-10O1-204B2 PTL45-19G1-105B2 PTL20-10O1-204B2 PTL30-15R0-103B2 PTL30-15G1-104B2 PTL20-15G1-104B2 PTL45-10R1-105B2 PTL20-19R0-104B2 PTL60-15O1-202B2 PTL30-19R0-104B2 PTL30-19O0-102B2 PTL20-19O0-102B2 PTL60-10G0-105B2 PTL20-19O1-102B2 PTL60-10G1-105B2 PTL30-19O1-102B2 PTL60-15O0-202B2 PTL20-19R1-104B2 PTL30-19R1-104B2 PTL20-15R0-202B2 PTL20-19R0-502B2 PTL30-10R1-503B2 PTL20-10R1-503B2 PTL30-15R0-202B2 PTL30-19R0-502B2 PTL45-19R0-203B2 PTL20-10R0-503B2 PTL30-10R0-503B2 PTL45-19R1-203B2 PTL20-15R1-202B2 PTL20-19R1-502B2 PTL30-15R1-202B2 PTL30-19R1-502B2 PTL45-19G1-503B2 PTL60-19G0-203B2 PTL30-15G1-502B2 PTL20-15G1-502B2 PTL45-10O1-103B2 PTL45-10G0-504B2 PTL45-10G1-504B2 PTL45-19G0-503B2 PTL20-15G0-502B2 PTL45-10O0-103B2 PTL30-15G0-502B2 PTL60-19G1-203B2 PTL45-10G0-103B2 PTL45-10G1-103B2 PTL30-15R0-504B2 PTL45-10O1-504B2 PTL20-15R0-504B2 PTL45-19O0-503B2 PTL20-15O0-502B2 PTL30-10R0-102B2 PTL20-10R0-102B2 PTL30-15O0-502B2 PTL60-19O1-203B2 PTL20-10R1-102B2 PTL30-15O1-502B2 PTL20-15O1-502B2 PTL30-10R1-102B2 PTL45-10O0-504B2 PTL30-15R1-504B2 PTL60-19O0-203B2 PTL20-15R1-504B2 PTL45-19O1-503B2 PTL45-10G1-203B2 PTL60-15O1-102B2 PTL60-15G0-503B2 PTL45-10G0-203B2