

Features

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



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Product Dimensions

20 mm Length of Travel



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

MM

(INCHES)



PTL Series Slide Potentiometer w/LED



DIMENSIONS:



Mounting Hole Detail



Standard Resistance Table Resistance Resistance (Ohms) 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



Electrical Characteristics

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

End Resistance
20 mm Travel 10 ohms max.
30 mm Travel 20 ohms max.
45 mm Travel 20 ohms max.
60 mm Travel 30 ohms max.
100 mm Travel 30 ohms max.
Insulation Resistance @ 250 VDC
100 megohms min.
Dielectric Withstanding Voltage
Standard Taper Linear, Audio
Power Rating - Linear
20 mm Travel 0.05 watt
30 mm Travel 0.1 watt
45 mm Travel 0.125 watt
60 mm Travel 0.2 watt
100 mm Travel 0.2 watt
Power Rating - Audio
20 mm Travel 0.025 watt
30 mm Travel 0.05 watt
45 mm Travel 0.06 watt
60 mm Travel 0.1 watt
100 mm Travel 0.1 watt
Slider Noise

Environmental Characteristics

Operational Life	15,000 cycles
TR Shift	±15 %
Operating Temperature Ra	nge
1() °C to +55 °C
Resistance to Solder Heat	±5 %
Moisture Sensitivity Level.	1
ESD Classification (HBM).	N/A

Mechanical Characteristics

Mechanical Trave	əl L	ength ±0.5 mm
Operating Force.		. 30 gf to 250 gf
Center Detent Fo	orce	.20 gf to 200 gf
Stop Strength		5 kgf min.
Shaft Axial Force		5 kgf min.
Shaft Wobble 2	(2 x L/20	0) mm p-p max.
Soldering Conditi	ion	
	000.00	F 0 O (1 O 1 O 1

Manual	300	Ĵ	±Σ	Ĵ	TOL	3	sec.
Wave	260	°C	±5	°C	for	5	sec
Wash		No	t re	col	mm	er	nded

WARNING Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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Applications

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

PTL Series Slide Potentiometer w/LED

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Product Dimensions



45 mm Length of Travel





Mounting Hole Detail



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HOLES

.1 +0.2/-0

(.043 +.008/-0)

DIA, 6 PLCS.

в

MM

(INCHES)

PTL Series Slide Potentiometer w/LED

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Product Dimensions

60 mm Length of Travel





DIA. 2 PLCS.

 $\frac{96.3\,\pm\,0.3}{(3.791\,\pm\,.012)}$

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PTL Series Slide Potentiometer w/LED

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How To Order

	PTL 30 - 10 R 0 - 103 B2
Model Number Designator	
PTL = Slide Potentiometer w/LED	
Length of Travel 20 = 20 mm 45 = 45 mm 01 = 30 = 30 mm 60 = 60 mm	4 100 mm
Lever Length 10 = 10 mm 15 = 15 mm 19 = 19 mm	
LED Color R = Red A = Amber O = Orange W = White G = Green	
Detent Option 0 = No Detent 1 = Center Detent	
Resistance Code ——— (See Standard Resistance Table)	

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

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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	VF	I _F = 20 mA		1.8	2.0	V
	Luminous Intensity	١ _V		12	20		mcd
	Peak Emission Wavelength	λρ			660		nm
	Dominant Wavelength	λd			643		nm
	Spectral Line Half Width	Δ_{λ}			20		nm
Orange	Forward Voltage	VF	I _F = 20 mA		2.0	2.7	V
	Luminous Intensity	١ _V		9	15		mcd
	Peak Emission Wavelength	λp			610		nm
	Dominant Wavelength	λd			605		nm
	Spectral Line Half Width	Δ_{λ}			35		nm
	Forward Voltage	٧ _F	IF = 20 mA		3.3	4.0	V
Green	Luminous Intensity	١ _V		105	175		mcd
	Peak Emission Wavelength	λp			530		nm
	Dominant Wavelength	λ _d			35		nm
	Spectral Line Half Width	Δ_{λ}			160		nm
	Forward Voltage	٧ _F			2.1	2.6	V
	Luminous Intensity	١ _V	I _F = 20 mA		5.0		mcd
Amber	Peak Emission Wavelength	λρ			585		nm
	Dominant Wavelength	λ _d		582	-	595	nm
	Spectral Line Half Width	Δ_{λ}			35		nm
	Forward Voltage	VF	I _F = 20 mA		3.2	3.6	V
	Luminous Intensity	IV			1000		mcd
White	Peak Emission Wavelength	λp			-		nm
	Dominant Wavelength	λd		460	-	470	nm
	Spectral Line Half Width	Δ_{λ}			35		nm

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Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com www.bourns.com

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