Model P270 / P271 / P272

Features:

- 12.7 mm (1/2") square rotary
- 1,000,000 cycle life
- Conductive plastic element
- Heavy duty applications
- Sealed unit available





Model Styles Available

RoHS 2 compliant

Panel, Solder Lugs, Single Gang	P270
Panel, Solder Lugs, with Center Tap	P271
Panel, Solder Lugs, Dual Gang	P272

Electrical

Resistance Range, Ohms 200-1M (for "B" t 1K-1M (for other ta			
Standard Resistance Tolerance	± 10%		
Residual Resistance	6 Ώ max.		
Input Voltage, maximum	500 Vdc not to exceed power rating		
Power rating, Watts	2 Watts @ 70°C for "B" Taper, 1 Watt for all others		
Dielectric Strength	1000VAC, I minute		
Insulation Resistance, Minimum	50M ohms at 500Vdc		
Sliding Noise	100mV max.		
Actual Electrical Travel, Nominal	300°		
Electrical Continuity, Nominal	312°		

Mechanical

Total Mechanical Travel	312°± 5°
Static Stop Strength, Maximum	200 oz-in
Rotational Torque, (Single gang)	Dust Proof : 1.0.oz-in. Max. Sealed : 1.0 to 2.5 oz-in
Rotational Torque, Maximum (Dual gang)	Dust Proof : 3.0.oz-in. Sealed : 5.0 oz-in
Panel Nut Tightening Torque	25 lb-in

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

Model P270 / P271 / P272



Environmental



Rotational Load Life

-55°C to +120°C 1M Cycles (10% ΔR)



Ordering P270 - S P 2 2 B R100K Total Resistance Model Series Seal Type Taper S = Sealed A = Audio D = Dust proof B = Linear Shaft Length (L) C = Reverse Audio Bushing Length (M) 1 = .625" Shaft Type: see below 1= .250" 2 = .875" 2 =.375" 3 = 1.000" 3 = .500" 4 = 2.000"

Shaft Types



F-TYPE Shaft – Bushing Combinations					
Shaft Length (L)	Bushing Length (M)	Flat Length (T)			
(1) = .625	(1) = .250	.315			
(1) = .625	(2) = .375	.180			
(1) = .625	(3) = .500	Not Available			
(2) = .875	(3) = .500	.315			
All Other	Combinations	.375			

STANDARD RESISTANCE VALUES, OHMS									
1K	2K	5K	10K	20K	50K	100K	200K	500K	1MEG

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Model P270 / P271 / P272



CIRCUIT DIAGRAM



Model 270



DANEL LAYOUT

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Model 271 (Center Tap)





PANEL LAYOUT





PANEL LAYOUT

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Model P270 / P271 / P272



Outline Drawings

P260D/P261D - WITH DETENT MODULE



P260T - TOP ADJUST, POTENTIOMETER MODULE





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Model P270 / P271 / P272



Outline Drawings

P260L - WITH WIRE LEADS

Consult factory for details and options

P260R - WITH RIBBON TYPE CABLE

Consult factory for details and options





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