Model P270/271/272 27mm Rotary Potentiometer Long Life - 1 Million cycles Conductive Plastic Element Heavy Duty Applications Sealed Unit Available RoHS Compliant



	\sim \sim		
IVA		136	YLES
TAY I	UL	4-	

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

ELECTRICAL¹

Resistance Range, Ohms	200-1M (for "B" taper) 1K-1M (for other tapers)
Standard Resistance Tolerance	± 10%
Residual Resistance	6 Ω 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

ENVIRONMENTAL

Operating Temperature Range	-55°C to +120°C
Rotational Load Life	1M Cycles (10% ΔR)

¹ Specifications subject to change without notice.

BI Technologies Corporation

4200 Bonita Place, Fullerton, CA 92835 USA

Phone: 714 447 2345 Website: www.bitechnologies.com

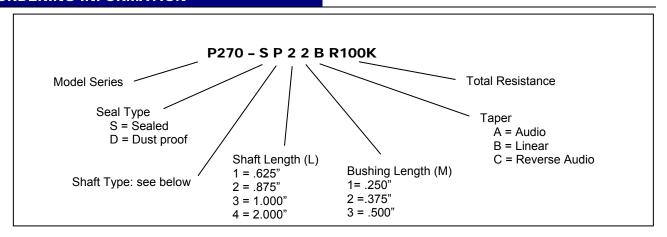
For electronics

BI technologies

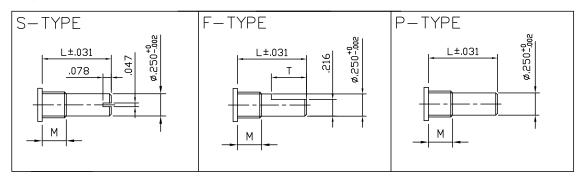
July 24, 2014 page 1 of 4

Model P270/271/272

ORDERING INFORMATION²



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	
----	----	----	-----	-----	-----	------	------	------	------	--

BI Technologies Corporation

July 24, 2014

4200 Bonita Place, Fullerton, CA 92835 USA

Phone: 714 447 2345 Website: <u>www.bitechnologies.com</u>

page 2 of 4



² Contact our customer service for custom designs and features.

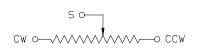
Model P270/271/272

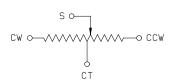
CIRCUIT DIAGRAM

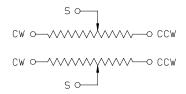
P270 (without Center Tap)

P271 (with Voltage Center Tap)

P272 (Dual Gang)

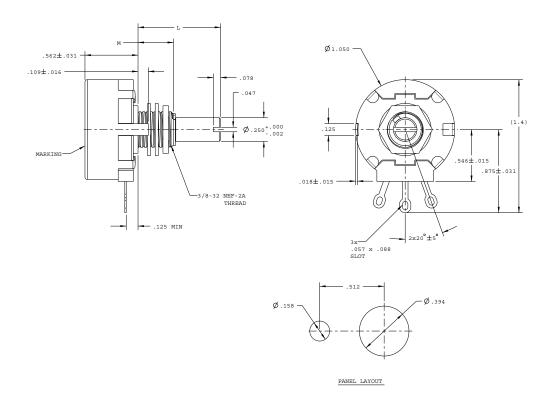






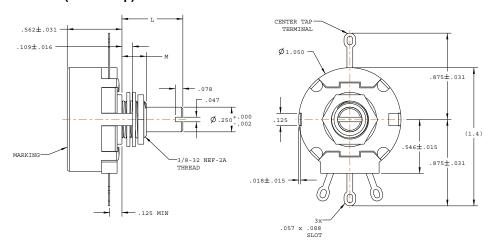
OUTLINE DRAWING

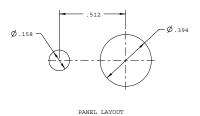
Model 270



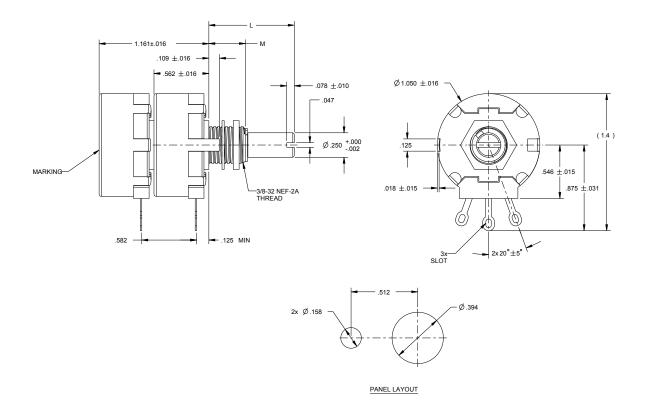
Model P270/271/272

Model 271 (Center Tap)





Model 272 (Dual gang)





4200 Bonita Place, Fullerton, CA 92835 USA

Phone: 714 447 2345 Website: www.bitechnologies.com



July 24, 2014 page 4 of 4