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



MODEL STYLES

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

ELECTRICAL[1]

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

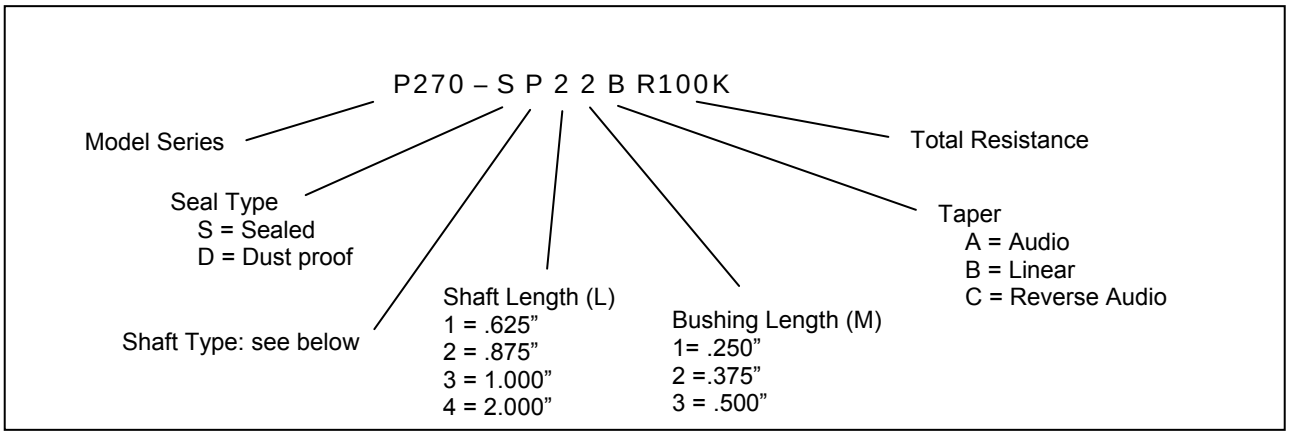
Operating Temperature Range	-55°C to +120°C
Rotational Load Life	1M Cycles (10% ΔR)

[1] *Specifications subject to change without notice.*

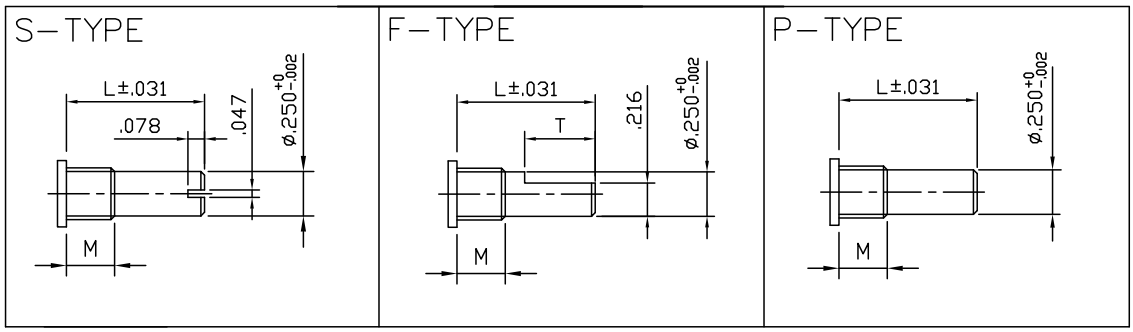
BI Technologies Corporation
4200 Bonita Place, Fullerton, CA 92835 USA
Phone: 714 447 2345 Website: www.bitechnologies.com

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ORDERING INFORMATION[2]



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

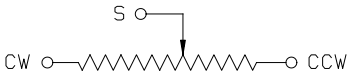
STANDARD RESISTANCE VALUES, OHMS

1K	2K	5K	10K	20K	50K	100K	200K	500K	1MEG

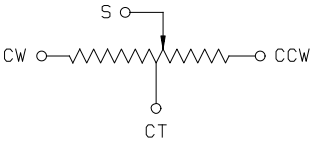
[2] *Contact our customer service for custom designs and features.*

CIRCUIT DIAGRAM

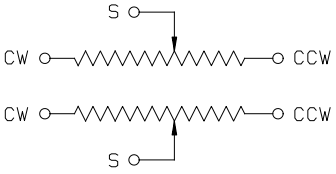
P270 (without Center Tap)



P271 (with Voltage Center Tap)

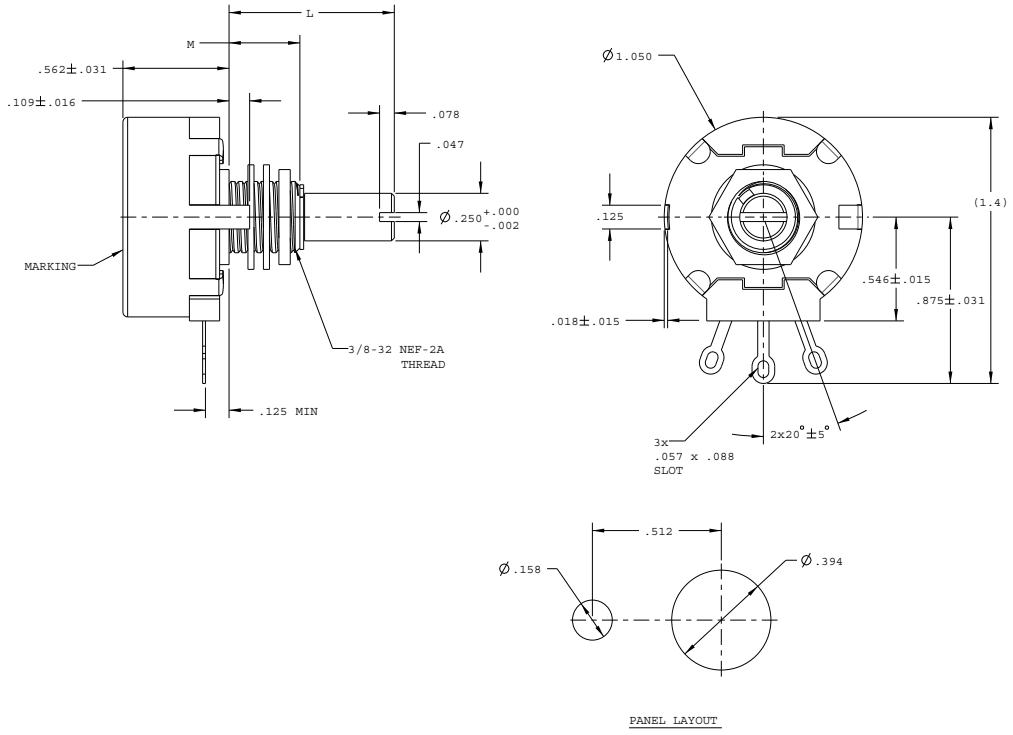


P272 (Dual Gang)



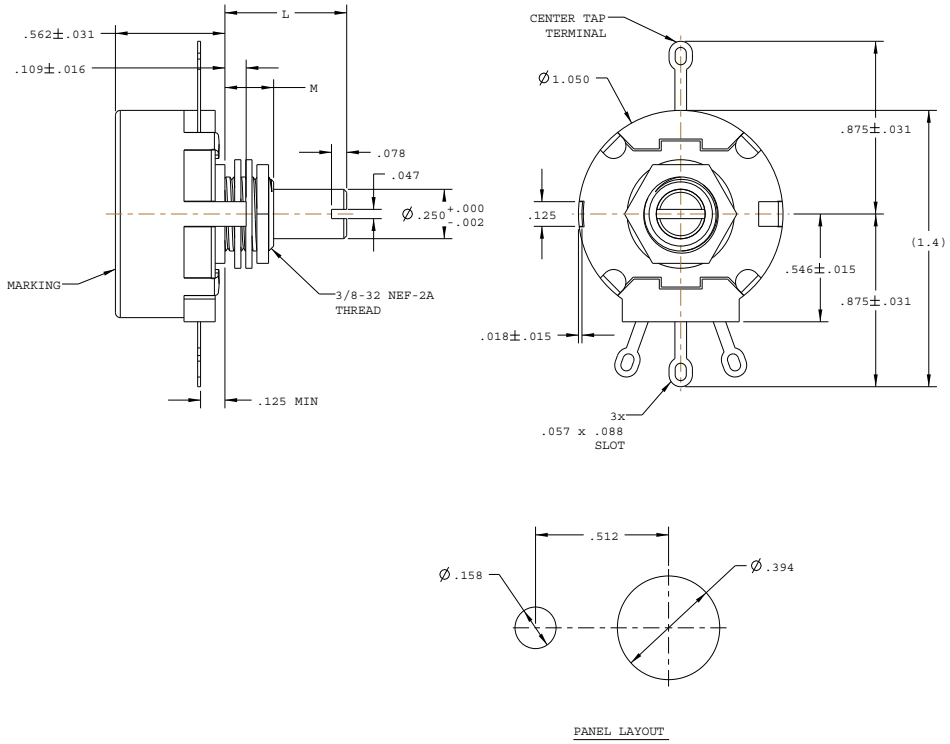
OUTLINE DRAWING

Model 270

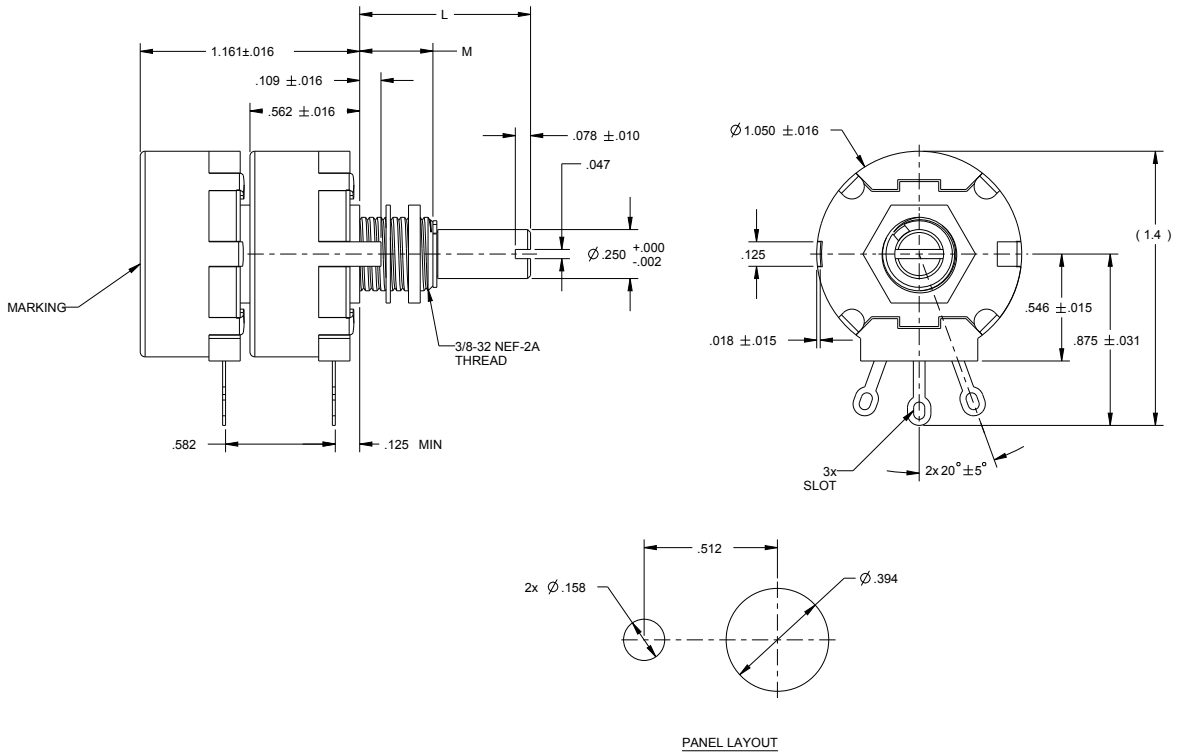


Model P270/271/272

Model 271 (Center Tap)



Model 272 (Dual gang)



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