

Electrical Characteristics

Standard Resistance F	Range
Resistance Tolerance.	±30 % std.
Linearity	±2 %
Resolution	Essentially infinite
Insulation Resistance	@ 500 VDĆ
	100 megohms min.
Dielectric Strength	•
Sea Level	
70,000 Feet	
Adjustment Angle	330 ° nom.

Environmental Characteristics

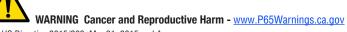
Power Rating (16 volts n	
50 °C	0.05 watt
120 °C	0 watt
Operating Temperature F	
	40 °C to +120 °C
Temperature Coefficient	±500 ppm/°C
Humidity	TRS ±20 %
Shock 20 G TRS ±1	
Load Life @ 50 °C Rated	d Power
Rotational Life	1,000,000 cycles
	TRS ±20 %
Thermal Shock	5 cycles
	20 %; VRS ±10 %
Moisture Sensitivity Leve	
ESD Classification (HBM	1)N/A

Physical Characteristics

Mechanical AngleContinuous rotation Torque30 gf-cm max.
Weight Approximately 0.0321 g
Marking Resistance code
and date code
Standard Packaging
G Style 1000 pcs./13 " reel
H Style 50 pcs./tube
IP Rating IP40

Standard Resistance Table

Resistance	
Code	
252	
502	
103	
253	
503	
104	



*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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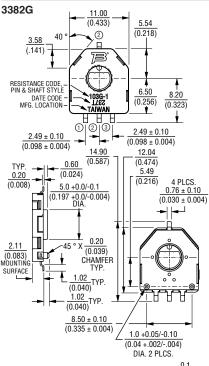
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Features

- Surface mount and through-hole versions
- 12 mm Square / Dustproof
- One million rotational cycles
- Thin profile
- RoHS compliant*
- AEC-Q200 compliant

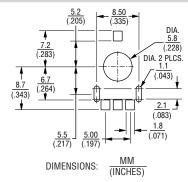
3382 - 12 mm Rotary Position Sensor

Product Dimensions



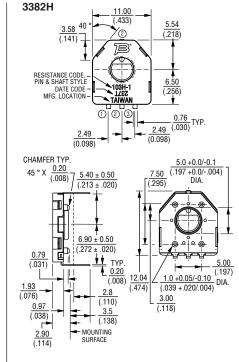
NOTE: ALL TERMINATIONS TO BE COPLANAR WITHIN $\frac{0.1}{(0.001)}$

Recommended Land Pattern

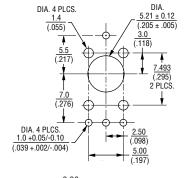


Applications

- Volume control on audio equipment
- Motion controllers
- Dishwasher control systems
- Automotive temperature range



Recommended Land Patterns



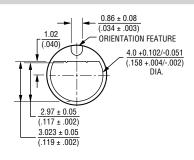
TOLERANCES: $\frac{\pm 0.30}{\pm (.012)}$ UNLESS OTHERWISE NOTED

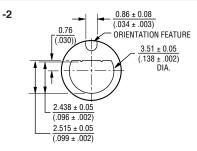
3382 - 12 mm Rotary Position Sensor

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Rotor Dimensions

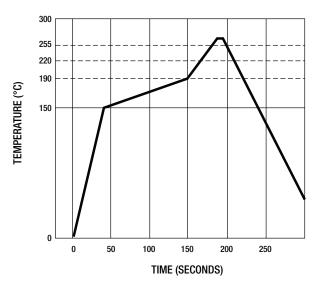
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Processing Information

Process Description	Materials	Temperature	Time Interval
 Apply solder paste to test board (8 - 10 mil thick) 	 Sn/Ag/Cu Alloy water soluble or no clean solder paste Single sided epoxy glass (G10) (UL approved) PC board approx. 4x4x.06 in. 	Room temperature	
2. Place test units onto board	6 units/board		
3. Ramp up	Convection oven		2.5 °C ±0.5 °/second
4. Preheat		150 °C to 190 °C	90 ±30 seconds
5. Time above liquidus		220 °C	60-90 seconds
6. Peak temperature			260 °C +0 °/-5 ° 10-20 sec. within 5 °C of peak
7. Ramp down		Room temperature	3 °C ±0.5 °C/second



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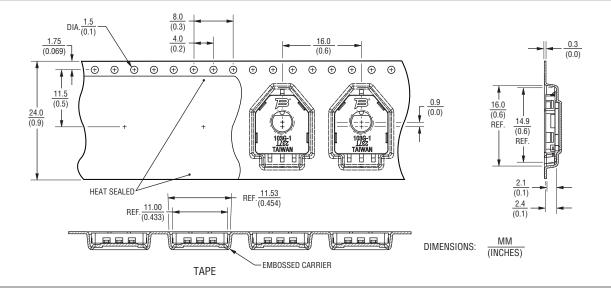
Users should verify actual device performance in their specific applications.

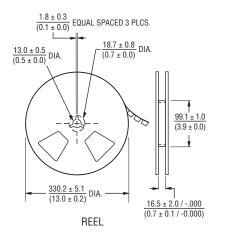
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3382 - 12 mm Rotary Position Sensor

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Packaging Specifications







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REV. 03/20

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