

Features

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

Applications

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

3382 - 12 mm Rotary Position Sensor

Electrical Characteristics

Standard Resistance Range2.5K to 100K ohms Resistance Tolerance±30 % std. Linearity.....±2 % Resolution..... Essentially infinite Insulation Resistance @ 500 VDC 100 megohms min. Dielectric Strength Sea Level500 VAC 70,000 Feet......350 VAC

Adjustment Angle...... 330 ° nom.

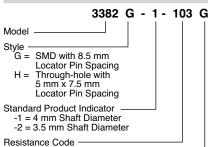
Physical Characteristics

Mechanical Angle Continuous rotation Torque......30 gf-cm max. Weight Approximately 0.0321 g Marking...... Resistance code and date code

Standard Packaging

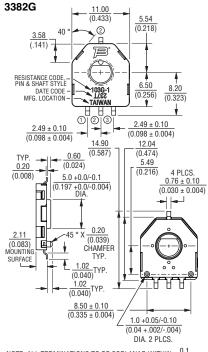
G Style	1000 pcs./13 " reel
H Style	50 pcs./tube
IP Rating	IP40

How To Order



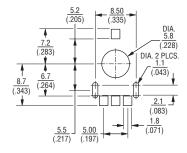
Packaging Designator
G = 1000 pcs./13 " Reel (G Style)
Blank = 50 pcs./Tube (H Style)

Product Dimensions



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

Recommended Land Pattern

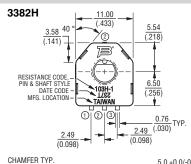


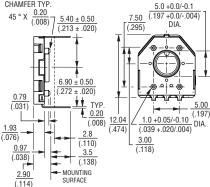
MM DIMENSIONS: (INCHES)

 ± 0.30 $\pm (.012)$ UNLESS OTHERWISE NOTED

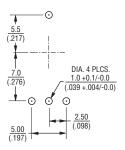
Standard Resistance Table

Resistance (Ohms)	Resistance Code	
2,500	252	
5,000	502	
10,000	103	
25,000	253	
50,000	503	
100,000	104	

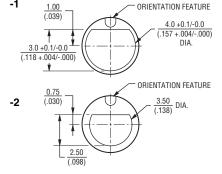




Recommended Land Pattern



Rotor Dimensions





Customers should verify actual device performance in their specific applications.

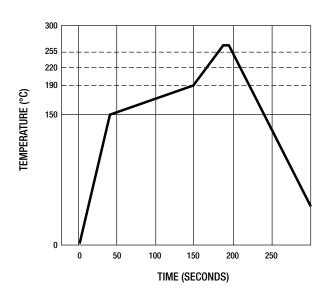
^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

3382 - 12 mm Rotary Position Sensor

BOURNS

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



Packaging Specifications

