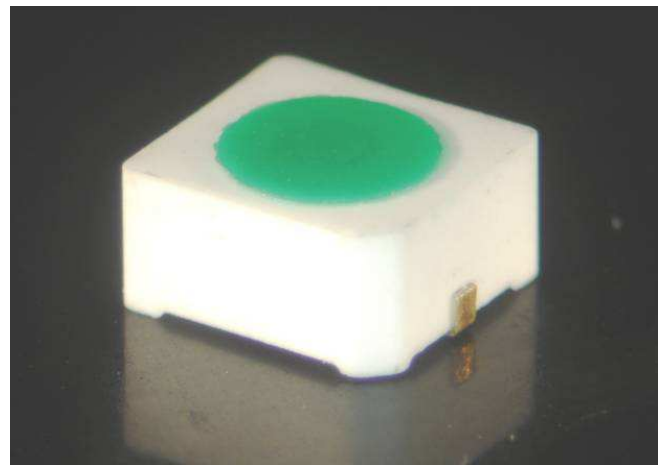


Hermetic Ceramic Trimmer Capacitors AT 2320G Series

SURFACE MOUNT TRIMMER CAPACITORS, ROHS COMPLIANT

DESCRIPTION

Ceramic dielectric
 Very compact package type (alumina housing)
 Withstand harsh environments
 Resistant to penetration of solder fluxes and cleaning solvents
 Rated voltage 250 VDC
 Low capacitance drift, very stable over time
 Terminations are **gold plated**
RoHS compliant
 High resonance frequency and very good Q
Non magnetic component
 Delivered on 12 mm tape and reel
Max Soldering Temperature 260°C, 10s Max



APPLICATIONS

RF power amplifier, LC filters
 Military and Avionics equipment
 Medical devices
 DR/Crystal Oscillators
 Broadband wireless LAN
 Telemetry
 Medical devices

I. ELECTRICAL SPECIFICATIONS

| P/N | AT 2320G-0 ROHS | AT 2320G-1 ROHS | AT 2320G-2 ROHS | AT 2320G-3 ROHS | AT 2320G-4 ROHS |
|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| From below | 0.6 | 1.0 | 2.5 | 7.5 | 8.5 |
| Capacitance range (pF) | | | | | |
| To above | 2.5 | 5.0 | 10.0 | 18.0 | 25.0 |
| Working Voltage (VDC) | 250 | | | | |
| Withstanding Voltage (VDC) | 500 | | | | |
| Working Temp. range | -55°C to +125°C | | | | |
| Temp. Coeff. (ppm/°C) | 100+/-200 | 100+/-200 | 100+/-200 | -450+/-300 | -1100+/-300 |
| Setting drift | < 1% | | | | |
| Typical Q @ 100 MHz, CMax | >3000 | >1000 | >1000 | >500 | >300 |
| Insulation Resistance (MΩ) | 10000 min | | | | |

Hermetic Ceramic Trimmer Capacitors

AT 2320G Series

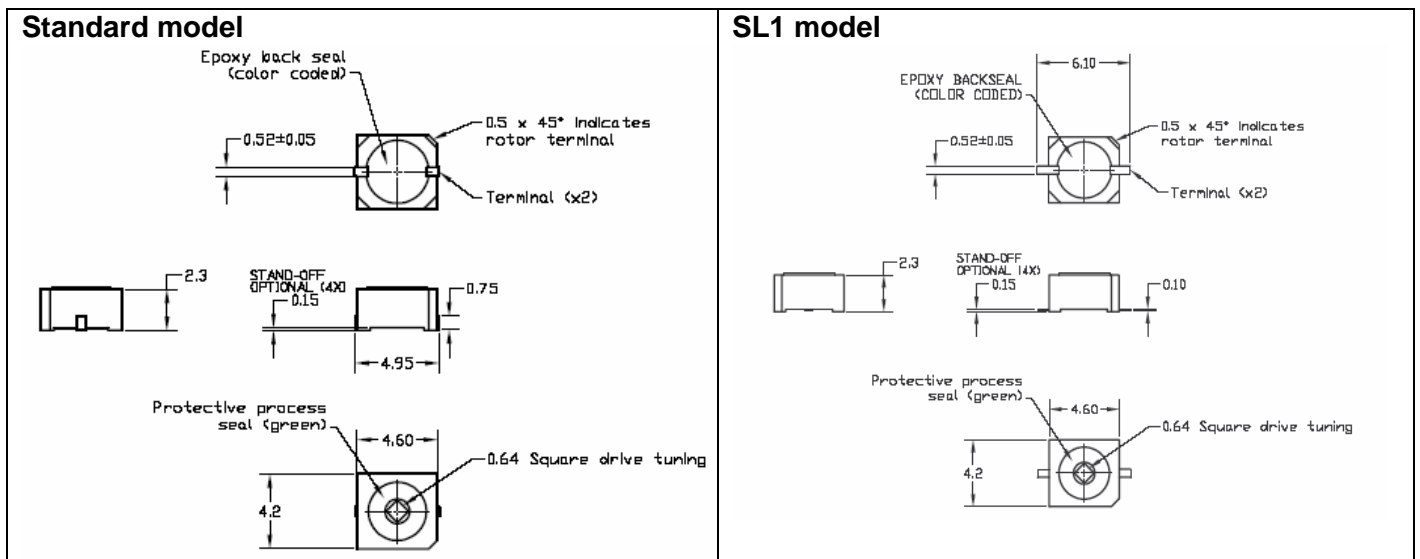
SURFACE MOUNT TRIMMER CAPACITORS, ROHS COMPLIANT

II. MECHANICAL & GENERAL SPECIFICATIONS

| P/N | AT 2320G-0 ROHS | AT 2320G-1 ROHS | AT 2320G-2 ROHS | AT 2320G-3 ROHS | AT 2320G-4 ROHS |
|---------------------|-------------------------|--------------------|--------------------|--------------------|--------------------|
| Color code | Red | Blue | Black | Clear | Green |
| Rotating torque | 4 to 70 cN.cm | | | | |
| Shock | 100g @ 6 ms | | | | |
| Vibration | 15g @ 10-2000 Hz | | | | |
| Moisture resistance | MIL-STD-202, Method 106 | | | | |

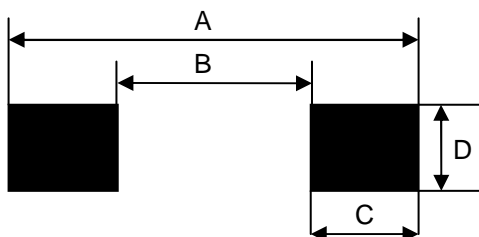
Color of epoxy back seal, on bottom side, is the color code

III. OUTLINE DIMENSIONS



IV. SOLDERING

Typical solder pad layout



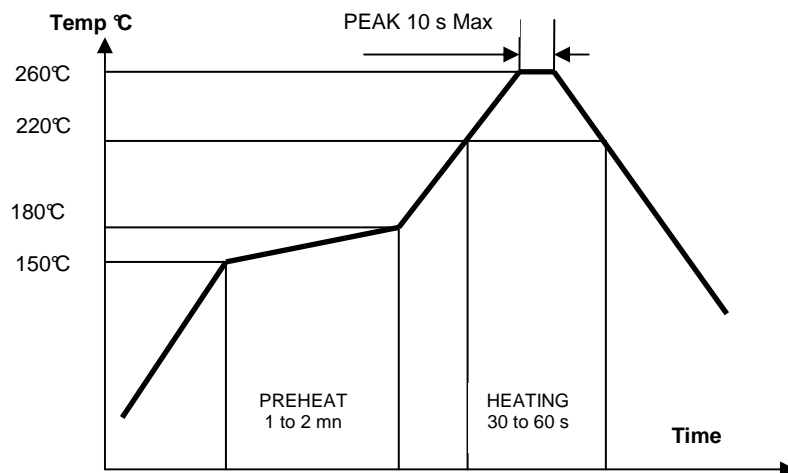
| Dim in mm | Standard model | SL model |
|-----------|----------------|----------|
| A | 5.6 | 6.8 |
| B | 2.8 | 2.8 |
| C | 1.4 | 2.0 |
| D | 1.0 | 1.0 |

Hermetic Ceramic Trimmer Capacitors AT 2320G Series

SURFACE MOUNT TRIMMER CAPACITORS, ROHS COMPLIANT

Recommended reflow solder temperature profile

Maximum Soldering Temperature 260°C MAX



V. PACKAGING

Parts delivered :

- in bulk for quantity lower than 500 p
- on tape and reel in 12 mm width carrier tape in quantities of 500 p on 7 inches reel

VI. HOW TO ORDER

Parts in quantity < 500 p

Reference **RoHS**

Example

AT 2320G-1 RoHS

Parts on tape and reel :

Reference **R1** **ROHS**

Examples

AT 2320G-2 R1 ROHS
AT 2320G-1 SL R1 ROHS

VII. TUNING TOOL

Tuning Tool reference: AT 4192

VIII. STORAGE INSTRUCTIONS

Hermetic Ceramic Trimmer Capacitors are packed with a 1/6 unit of dessicant and must remain in their original packing as long as possible before soldering. Care should be taken to make sure the re-sealable outer bag is completely sealed after each use.

TEMEX – CERAMICS, PARC INDUSTRIEL BERSOL 1, VOIE ROMAINE, 33600 PESSAC, France
TEL +33(0)5 56 46 66 66 FAX +33(0)5 56 36 31 98 www.temex-ceramics.com

Hermetic Ceramic Trimmer Capacitors AT 2320G Series

SURFACE MOUNT TRIMMER CAPACITORS, ROHS COMPLIANT

All Hermetic Ceramic Trimmer Capacitors should be stored in a temperature and humidity controlled environment.

If Hermetic Ceramic Trimmer Capacitors need to be re-packed then they must be packed in a re-sealable poly/metal anti-static bag with a fresh 1/6 unit of dessicant.

If Hermetic Ceramic Trimmer Capacitors have been inadvertently left exposed to ambient humidity, then dry the units per the following procedure:

For units that are **not** in tape & reel packaging

Place units in an oven at 35°C for 8 hours minimum or faster drying may be done at 120°C-150°C for 60 to 90 minutes. Re-pack using fresh dessicant packs after drying.

For units that are in tape & reel packaging

Place units in an oven at 35°C for 8 hours minimum. Re-pack using fresh dessicant packs after drying