

## Non Magnetic, Sapphire Dielectric Trimmer Capacitors

### SAPPHIRE DIELECTRIC TRIMMER CAPACITORS, RoHS COMPLIANT

#### DESCRIPTION

Sapphire dielectric  
Low magnetic signature, less than  $10^{-12}$  Tesla  
Rated Voltage 5000Vdc  
Low temperature coefficient  
Very stable over time  
High Q factor  
Multi-turn, high resolution  
Self-locking constant torque drive mechanism  
Silver and chromate finish  
ROHS compliant  
**Maximum Soldering Temperature 260°C, 3 s Max**

#### APPLICATIONS

Magnetic Resonance Imaging  
Nuclear Magnetic Resonance  
Medical Applications  
Non magnetic probes

#### I. ELECTRICAL SPECIFICATIONS

| P/N                   | TG 094 ROHS                |
|-----------------------|----------------------------|
| Capacitance range     | 0.6 to 8.0 pF<br>> 8 turns |
| Working Voltage       | 5000Vdc                    |
| Test Voltage          | 10000Vdc                   |
| Working Temp. range   | -55°C to +125°C            |
| Temp. Coefficient     | 400+/-100 ppm/°C           |
| Q factor              | tbc                        |
| Insulation Resistance | tbc                        |

Capacitance change is linear versus rotation of mobile rotor.

#### III. MECHANICAL & GENERAL SPECIFICATIONS

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](http://www.temex-ceramics.com)

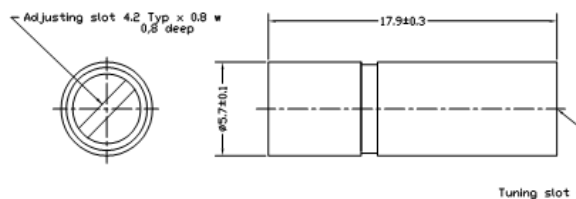
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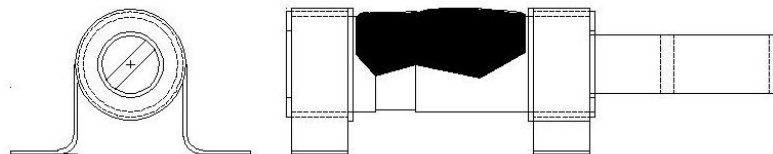
| P/N                      | TG 094 ROHS       |
|--------------------------|-------------------|
| Rotating torque          | 50 to 500 g.cm    |
| Max torque on rotor stop | 700 g.cm          |
| Rotational life          | > 400 revolutions |
| Vibrations               | 60g, 10-200 Hz    |
| Shocks                   | 100g, 6 ms        |

#### IV. MODELS & DIMENSIONS in mm

##### TG 094 ROHS



**NOTA:** TG 094 ROHS can be delivered with extended shaft upon request.



#### V. SOLDERING

**Hand soldering:** Use a temperature controlled 40 watts iron set at 260°C maximum. The solder joint should be made on 3 seconds or less.

#### VII. RECOMMENDATIONS FOR CLEANING

Delivered without sealing cap, these Trimmer Capacitors have to be installed after circuit board have been cleaned.

#### VIII. PACKAGING

Parts are delivered in bulk.

#### IX. HOW TO ORDER

## Non Magnetic, Sapphire Dielectric Trimmer Capacitors

### SAPPHIRE DIELECTRIC TRIMMER CAPACITORS, RoHS COMPLIANT

Non Magnetic High Voltage Sapphire Dielectric trimmer capacitors

| Reference | RoHS |
|-----------|------|
|-----------|------|

Examples

TG 094

ROHS

#### X. TUNING TOOL

Recommended Tuning Tool reference is **AT 8777**  
Improper screwdriver size will cause internal thread damage.

#### XI. ADJUSTING

The maximum torque on rotor stop value should not be exceeded or damage to capacitor may result.  
Always use the recommended tuning tool.