

NON MAGNETIC, HIGH VOLTAGE PTFE DIELECTRIC TRIMMER CAPACITORS

PTFE DIELECTRIC TRIMMER CAPACITORS, RoHS COMPLIANT

Description

PTFE dielectric

Non Magnetic structure

Rated voltage 1000 VDC to 1250 VDC

Low temperature coefficient

Very stable over time

High Q factor

Multi-turn, high resolution

Self-locking constant torque drive mechanism

Gold, silver and chromate finish

ROHS compliant

Maximum Soldering Temperature 260°C, 3 s Max



Applications

Magnetic Resonance Imaging

Nuclear Magnetic Resonance

Medical Applications

I. Electrical specifications

P/N	AT 52H01 AT 52H02	AT 55H01 AT 55H02
Capacitance range	1.5 to 10 pF >18 turns	1.5 to 19 pF > 18 turns
Working Voltage	1250 VDC	1000 VDC
Test Voltage	2500 VDC	2000 VDC
Working Temp. range	-55°C to + 125°C	
Temp. Coefficient	50+/-40 ppm/°C	0+/-50 ppm/°C
Q factor	>1400@195 MHz	>1000@175 MHz
Insulation Resistance	>10 ⁶ MΩ	

Capacitance change is linear versus rotation of mobile rotor.

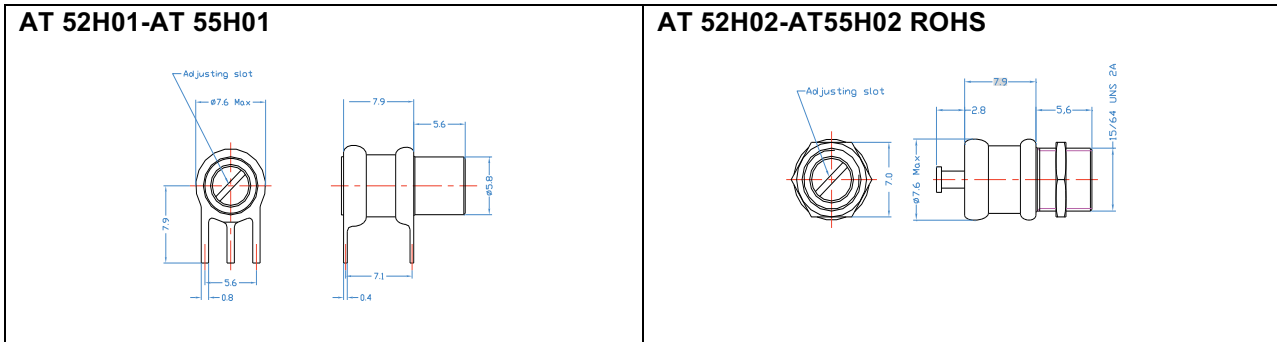
III. Mechanical and general specifications

P/N	AT 52H01 AT 52H02	AT 55H01 AT 55H02
Rotating torque	70 to 350 g.cm	
Max torque on rotor stop	500 g.cm	
Rotational life	> 600 revolutions	
Vibrations	60g, 10-2000 Hz	
Shocks	100g, 6ms	

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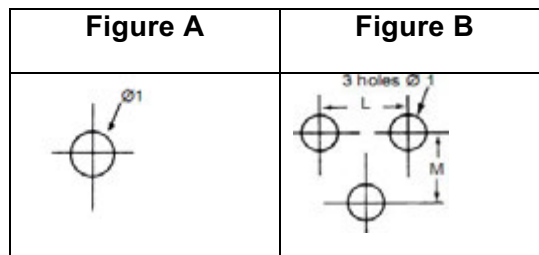
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IV. Models and dimensions in mm



Terminal with two legs is in contact with tuning rotor

V. Suggested mounting holes and soldering



Models	Figure	Ø1	L	M
AT 52H01 ROHS, AT 55H01 ROHS	B	1.3	5.6	7.1
AT 52H02 ROHS, AT 55H02 ROHS	A	6.2		

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.

VI. Recommendations for cleaning

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

EXXELIA TEMEX reserves the right to modify herein specifications and information at any time when necessary to provide optimum performance and cost.

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VII. Packaging

Parts are delivered in bulk.

VIII. How to order

Non Magnetic High Voltage PTFE Dielectric trimmer capacitors

Reference	RoHS
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Examples

AT 52H01	ROHS
AT 55H01	ROHS

IX. Tuning tool

Recommended Tuning Tool reference is **AT 8777**

Improper screwdriver size will cause internal thread damage.

X. Adjusting

The maximum torque on rotor stop value should not be exceeded or damage to capacitor may result.

Always use the recommended tuning tool.