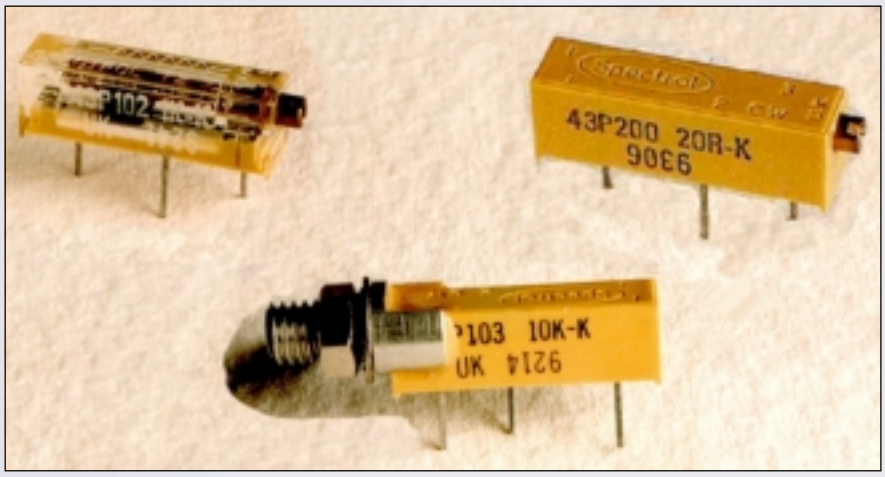
43

A 3/4" (19mm) Rectangular Multiturn Cermet Trimmer

Spectrol®



Optional features include: panel mount, clear lid alternative adjuster heights. The model 43 is manufactured to the highest international standards, approved to CECC 41101-801. This product, sealed to 85°C for 1 min. (JEC.68-2-17) has an effective travel of 20 turns nominal and a resistance range of 10 ohms to 2 Megaohms.

ELECTRICAL

Effective Travel:
20 turns nominal

Resistance Range:
10Ω to 2 Megohms

Resistance Tolerance:
±10%

End Resistance:
2Ω maximum

Temperature Coefficient of Resistance:
±100 ppm/°C. 100Ω to 2Megohms
-100 to +200ppm/°C. 10 ohms, 20 ohms and 50 ohms

Power Rating:
0.5 watt at 70°C, derated linearly to zero watts at 125°C. Maximum voltage not to exceed 400V

Dielectric withstanding voltage:
1000V AC at sea level, 250V AC at 80,000 feet (24,000 metres)

Insulation Resistance:
1000 Megohms minimum

Contact Resistance Variation:
1% or 1Ω, whichever is greater

MECHANICAL

Stop:
Wiper idles against stop

Operating Torque:
22.5mNm Max

Rotational Life:
200 cycles minimum with a maximum change of ±2% in total resistance

Weight:
0.04oz (1.2 grams) maximum

Resistance Element:
Cermet

Stability:
±0.05% RT

RESISTANCE VALUES

Ohms:
10R, 20R, 50R, 100R, 200R, 500R, 1K, 2K, 5K, 10K, 20K, 25K, 50K, 100K, 200K, 250K, 500K, 1M, 2M

MARKING

Unit Identification:
Manufacturer's name and model number, resistance value, tolerance, date code and terminal identification

ENVIRONMENTAL

		MAX CHANGE R	Vab Vac	1	2	3
Temperature Range:	-55° C to +55° C	2%	1%	(PARA 2.3.6)	TEST NA (IEC 68-2-14)	METHOD 107
Bumps:	390 m/s² 4000	1%	-	(PARA 2.3.3)	TEST EB (IEC 68-2-29)	NO EQUIV.
Vibration:	98 m/s² 10 to 500 Hz	1%	2%	(PARA 2.3.2)	TEST FC (IEC 68-2-6)	METHOD 204
Electrical Endurance:	1000 hour	3%	-	(PARA 2.5.16)		NO EQUIV.
Soldering:	-	-	-	(PARA 2.3.7)	TEST TB (IEC 68-2-20)	METHOD 208
Resistance to heat:		1%	-	(PARA 2.3.7)	TEST TB (IEC 68-2-20A) METHOD 1A	METHOD 210
Damp heat steady rate:	21 days	3%	-	(PARA 2.1)	TEST C (IEC 68-2-3)	METHOD 103
Sealing:	85° C for 1 min	-	-	AS IEC	TEST QC (IEC 68-2-17)	METHOD 112
Mechanical Life:	200 cycles	3%	-		METHOD 2	
Terminal strength:	2.2lbs (1kg)	min				

Related documents:

1 Per CECC 41100 2 Per IEC 68.1 Part 3 Per MIL 202F

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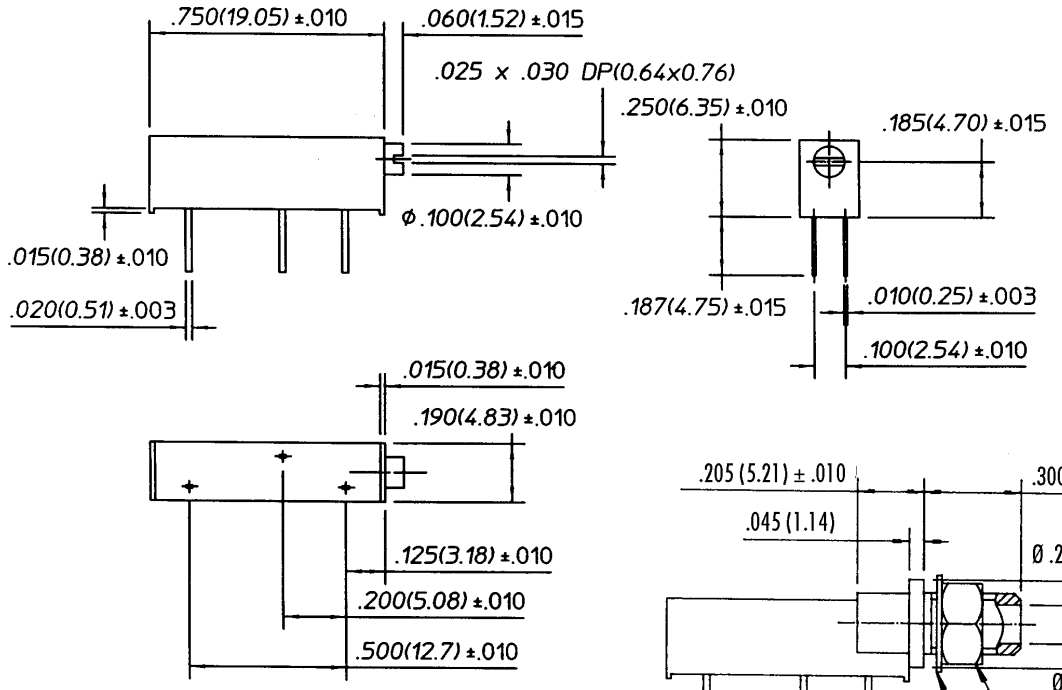
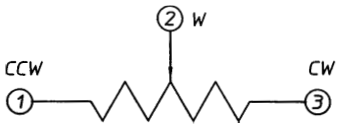
DIMENSIONS



43P & 43PT040

43PT601

TOLERANCES: Unless otherwise noted
Decimals ± .005. Angles ±2°.
Dimensions: in/(mm)



ORDERING INFORMATION

43P	-	XXXX	-	XXX
Model Number and Pin Style		T000 - Omit if standard T601 - Panel Mount T040 - Clear Lid		Resistance Value

Standard Resistance	
Res. Ohms	**Res. Code**
10	100
20	200
50	500
100	101
200	201
500	501
1000*	102*
2000*	202*
5000*	502*
10000*	103*
20000*	203*
25000	253
50000	503
100000	104
200000	204
250000	254
500000	504
1000000	105
2000000	205

***Preferred Range**

Spectrol

ISO 9001
FM 26189

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