

Type 12P, 12C Series

Key Features

- Polymer Film or Cermet Element
- Low Noise
- Long Life
- High Performance
- 12.5mm Square
- Robust Construction
- Linear and Non Linear Laws
- Board Washable
- Eyelet PC Terminations



These small versatile potentiometers meet a wide range of instrument applications. They are ideally suited to the need of professional broadcast and industrial control systems where a high performance specification, long operational life and low noise are of prime importance. They are offered with printed circuit and eyelet terminals as alternatives.

Characteristics - Electrical

	Conductive Plastic 12P	Cermet 12C
Resistance Laws & Ranges:	1K Ohm to 1M Ohm Linear (Non Linear Laws available to order)	150 Ohm to 100K Ohm (Linear)
Standard Values:	1K, 5K, 10K, 50K, 100K, 500K, 1M	150R, 200R, 250R, 500R, 750R, 1K, 5K, 10K, 50K, 100K
Selection Tolerance:	± 20% (± 10% by selection)	± 10% (± 5% by selection)
Rated Dissipation:	0.25W Lin, 0.125W Non Lin	1.0W
Limiting Element Voltage:	200V dc or ac RMS	350V dc or ac peak
Isolation Voltage:	500V dc or ac peak	500V dc or ac peak
Electrical Rotation:	270° ± 5°	270° ± 5°
Terminal Resistance:	2 Ohm max.	2 Ohm max.
Noise:	2 % max.	2 % max.
Insulation Resistance:	1000M Ohm min.	1000 M Ohm min.

Characteristics - Mechanical

	Conductive Plastic	Cermet 12P, 12C
Starting Torque:	2 to 15 mNm	2 to 15 mNm
Mechanical Torque:	295° ± 5°	295° ± 5°
End Stop Torque:	560 mNm	560 mNm
Spindles (standard):	7/8" Long with slot x 1/8" diameter 1" Long with slot x 1/4" diameter Other spindle, bushing and Terminal styles are available on request	7/8" Long with slot x 1/8" diameter 1" Long with slot x 1/4" diameter Other spindle, bushing and Terminal styles are available on request

Characteristics - Environmental

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Limits of Resistance Change:	± 5% (after 1000 hrs endurance)	± 10% (after 1000 hrs endurance)
Temperature characteristics of resistance (-55°C to 125°C):	± 1000 ppm/°C	± 150 ppm/°C
Bump Severity:	15G ΔR<± 2%	15G ΔR<± 2%
Mechanical Endurance:	50,000 operations min.	25,000 operations min.

