

53W LF SERIES

CROSS TO Bourns 3224W
SMD MULTITURN CERMET TRIMMING POTENTIOMETER

FEATURE

- 6mm / Square / Surface Mount
- 11 Turns / Cermet / Industrial / Sealed
- Pick and place centering design, with flush adjustment

ELECTRICAL CHARACTERISTICS

Standard Resistance Range	100 to 1 megohms (see standard resistance table)
Resistance Tolerance	± 10% std. (tighter tolerance available)
Absolute Minimum Resistance	1% or 2 ohms max. (whichever is greater)
Contact Resistance Variation	3% or 3 ohms max. (whichever is greater)
Resolution	Essentially Infinite
Insulation Resistance	500 Vdc 1,000 megohms min.
Dielectric Strength	101.3 kPa 500 Vac; 8.5 kPa 250 Vac
Effective Travel	11 turns nom.

ENVIRONMENTAL CHARACTERISTICS

Power Rating (200 volts max.)	0.25 watt (70 °C), 0 watt (125 °C)
Temperature Range	-55 °C to +125 °C
Temperature Coefficient	± 100ppm/ °C
Vibration	98m/s ² (1% ΔTR; 1% ΔVR)
Shock	490m/s ² (1% ΔTR; 1% ΔVR)
Load Life	1,000 hours 0.5 watt @ 70 °C (3% Δ TR; 3% or 3 ohms, whichever is greater, CRV)
Rotational Life	200 cycles (3% Δ TR; 3% or 3 ohms, whichever is greater, CRV)
Thermal Shock	5 cycles (2% Δ TR; 1% ΔVR)

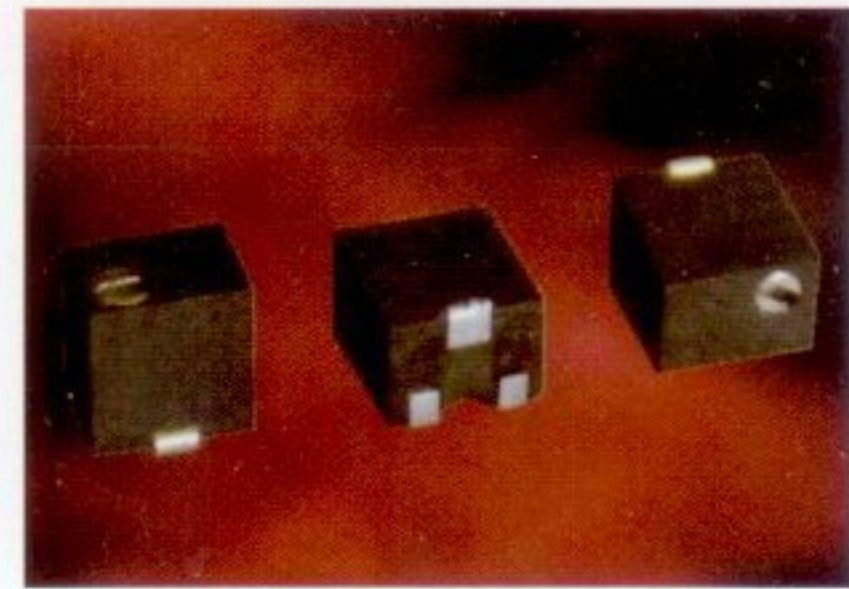
PHYSICAL CHARACTERISTICS

Torque	25mN · m max.
Mechanical Stops	Wiper idles
Wiper	Set at 50% nominal

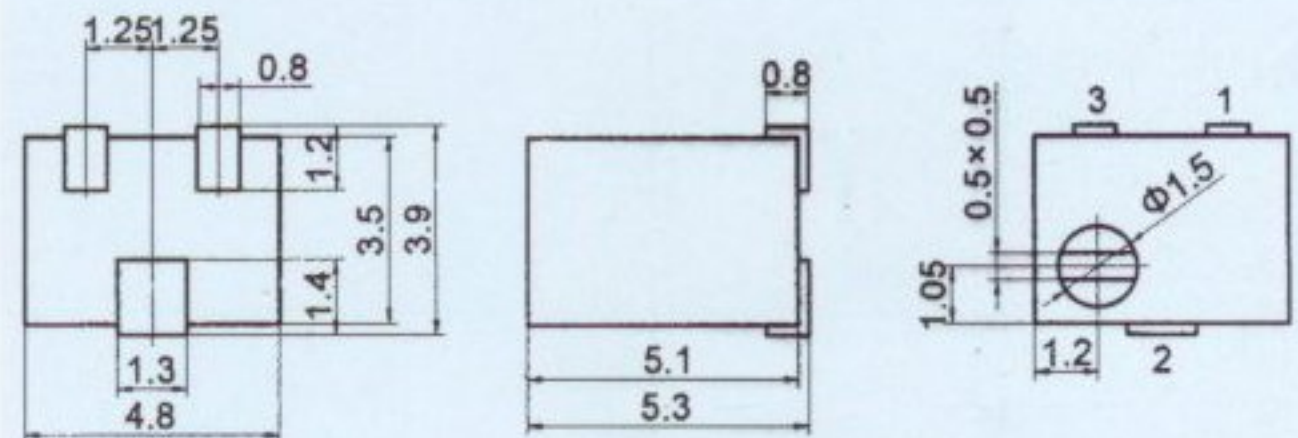
STANDARD RESISTANCE TABLE

Resistance (Ohms)	Resistance Code	Resistance (Ohms)	Resistance Code
10	100	10,000	103
20	200	20,000	203
50	500	25,000	253
100	102	50,000	503
200	201	100,000	104
500	501	200,000	204
1,000	102	250,000	254
2,000	202	500,000	504
5,000	502	1,000,000	105

Special resistance available



OUTLINE DIMENSIONS



53W

Unit: mm Tolerance: ± 0.25 if not specified

COMMON DIMENSIONS SIDEADJUST

