

## Features

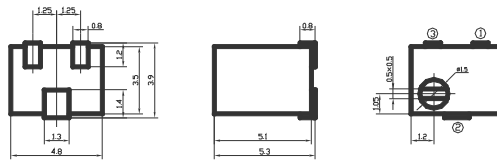
- Surface Mount
- 4mm Square
- Multi-turns / Cermet
- Industrial / Sealed

## 1801-Series - Trimmer 4mm Square SMD Trimming Potentiometer

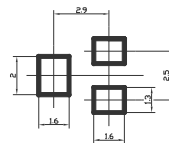
### Electrical Characteristics

Standard Resistance Range  
10 to 2 megohms  
(see standard resistance table)  
Resistance Tolerance  
 $\pm 10\%$  std.  
(tighter tolerance is 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 600 Vac  
8.5 KPa 250 Vac  
Effective Travel  
11 turns nom.

### 1801-W



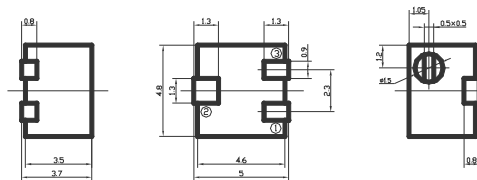
RECOMMENDED PCB LAYOUT



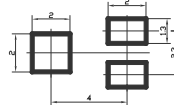
### Environmental Characteristics

Power Rating (200 volts max.)  
0.25 watt (70°C), 0 watt (125°C)  
Temperature Range  
-55°C to +125°C  
Temperature Coefficient  
 $\pm 100$ ppm/°C  
Vibration  
98 m/s<sup>2</sup>  
(1%  $\Delta$  TR; 1%  $\Delta$  VR)  
Shock  
490 m/s<sup>2</sup>  
(1%  $\Delta$  TR; 1%  $\Delta$  VR)  
Load Life  
1,000 hours 0.25 watt @ 70°C  
(3%  $\Delta$  TR; 3% or 3 ohm,  
whichever is greater, CRV)  
Rotational Life  
200 cycles  
(3%  $\Delta$  TR; 3% or 3 ohm,  
whichever is greater, CRV)  
Thermal Shock  
5 cycles  
(2%  $\Delta$  TR; 1%  $\Delta$  VR)

### 1801-J



RECOMMENDED PCB LAYOUT



### Standard Resistance Table

Resistance (Ohms)	Resistance Code
10	100
20	200
50	500
100	101
200	201
500	501
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
25,000	253
50,000	503
100,000	104
200,000	204
250,000	254
500,000	504
1,000,000	105
2,000,000	205

\* Special resistance is available

TCR of shaded areas +/-250ppm/°C

Detail Specification: Q/R/515-2003

### Physical Characteristics

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

