



800-227-0075

<http://www.vimex.com>

# Product Specification

## Electrical

Standard Resistance Range	:	10 ohms to 5 megohms
Resistance Tolerance	:	±10 standard ( <i>tighter tolerance available</i> )
Absolute Minimum Resistance	:	1% or 2 ohms max. ( <i>whichever is greater</i> )
Minimum Operating Current	:	50mA
Contact Resistance Variation	:	3% or 3 ohms maximum ( <i>whichever is greater</i> )
Adjustability	:	Voltage ±0.01%      Resistance ±0.05%
Resolution	:	Infinite
Insulation Resistance	:	500VDC 1,000 megohms minimum
Dielectric Strength	:	101.3 kPa 600VAC or 8.5kPa 360VAC
Effective Travel	:	25 turns nominal

## Environmental

Power Rating ( <i>300 volts max</i> )	:	0.5 watts (70°C), 0 watts (125°C)
Temperature Range	:	-55°C ~ +125°C
Temperature Coefficient	:	±100ppm/°C or ±250ppm/°C ( <i>see following table</i> )
Vibration	:	98m/s <sup>2</sup> (1%ΔTR; 1%ΔVR)
Shock	:	390m/s <sup>2</sup> (1%ΔTR; 1%ΔVR)
Load Life	:	1,000 hours 0.5 watt @ 70°C 3%ΔTR; 4% or 4 ohms ( <i>whichever is greater, CRV</i> )
Rotational Life	:	200 cycles 3%ΔTR; 4% or 4 ohms ( <i>whichever is greater, CRV</i> )

## Physical

Torque	:	36mN•m maximum
Mechanical Stops	:	Wiper idles
Terminals	:	Solderable pins
Wiper	:	Cu-Zn-Ni alloy
Standard Package	:	50 pieces per tube

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Standard Resistance & Temperature Coefficient	
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
5,000,000	505

Special resistance available

Temperature coefficient of shaded areas  $\pm 250\text{ppm}/^{\circ}\text{C}$

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