

Vatronics Technologies Limited

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3006 Rectangular Multi-Turn Trimmer Potentiometers

Vatronics makes 3006P3006Y,3006W Series

Electrical Characteristics

Range of resistance 50Ω — $2M\Omega$ Resistance tolerance $\pm 10\%$

Terminal resistance $\leq 2\Omega$ or $1\%R$

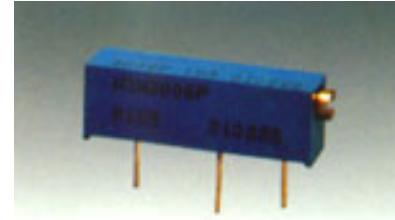
Contact resistance variation $CRV \leq 3\%R$ or 3Ω

Insulation resistance $R_e \geq 1G\Omega$

Withstand voltage $450V_{dc}$

Limit current of moving contact $50mA$

Effective electrical travel 22 turns



3006

Vatronics Environmental Characteristics

Rated power ($315V_{max}$) $0.5W \cdot 70^\circ$

Temperature range -55° — $+125^\circ$

TCR $\pm 100ppm/^\circ$; $\pm 250ppm/^\circ$

Temperature variation $-55^\circ, 30min, +125^\circ, 30min$

$5 \cdot cycles \Delta R \leq 3\%R, \Delta(U_{ab}/U_{ac}) \leq 2\%$

Collision $390m/s^2 \cdot 4000 \cdot cycles \Delta R \leq 2\%R$

Vibration 10 — $500HZ \cdot 0.75mm, 6h$

$\Delta R \leq 2\%R, \Delta(U_{ab}/U_{ac}) \leq 3\%$

Vatronics Climate category $\Delta R \leq 3\%R \cdot R_e \geq 100M\Omega$

Endurance at $70^\circ 0.5W; 1000h$

$\Delta R \leq 3\%R \cdot CRV \leq 3\%R$

Vatronics Mechanical endurance 200cycles

$\Delta R \leq 3\%R \cdot CRV \leq 3\%R$

Steady damp—heat $\Delta R \leq 3\%R \cdot R_e \geq 100M\Omega$

Physical Characteristics

Total mechanical travel $25 \pm 5 \cdot turns$

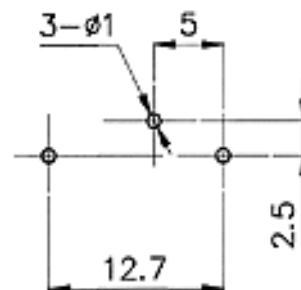
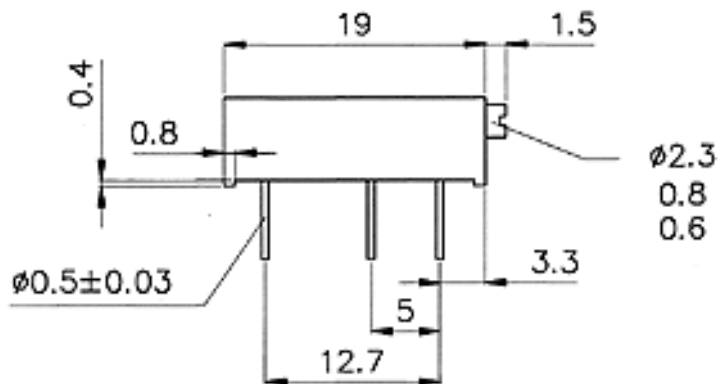
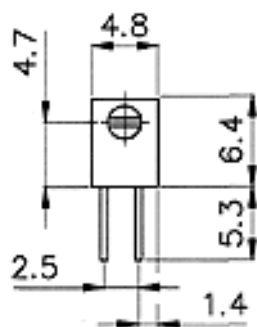
Starting torque $\leq 15 \cdot mN.m$

Mark Resistance code, resistance tolerance
($\pm 10\%$ no indication), lot No

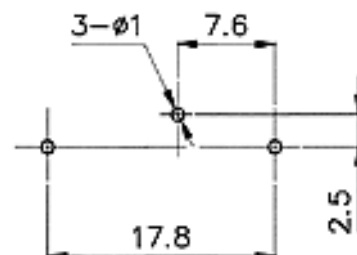
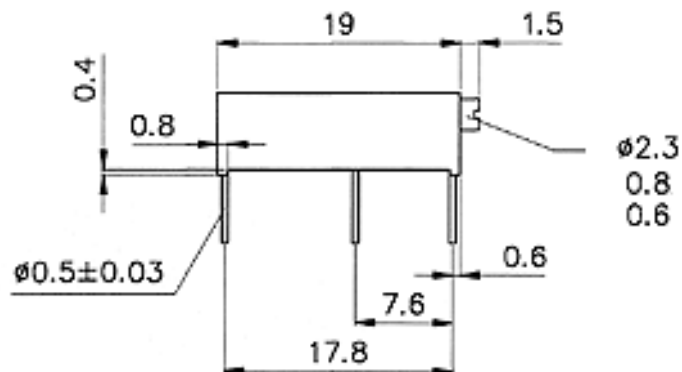
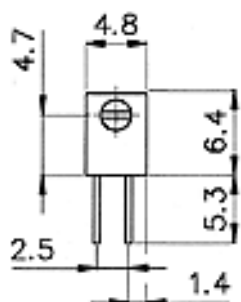
Standard pack 50pcs/tube

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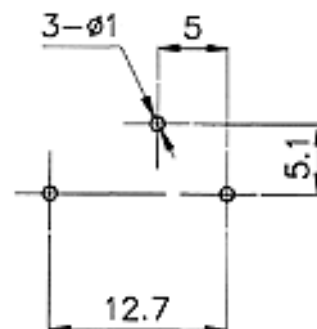
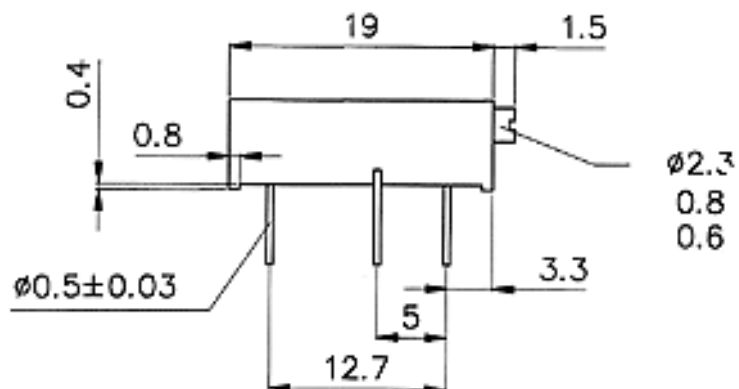
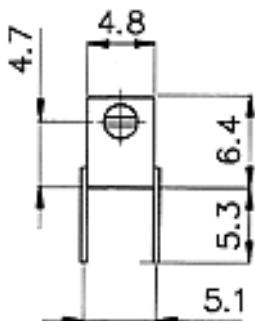
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Vatronics 3006P DRAWING



Vatronics 3006Y DRAWING



Vatronics 3006W DRAWING