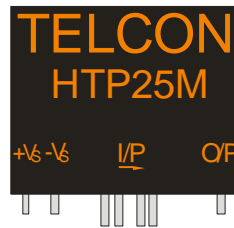




Speciality Magnetic Components

QUALIFIED TO ISO 9001:2008



## HTP25M – SPECIFICATION

### TECHNICAL DATA

Nominal Primary Current	25 A
Turns Ratio	500 : 1 ( 25 A : 50 mA )
Nominal Power Supply	$\pm 15\text{ V} \pm 5\%$
Supply Current	16 mA per rail + output current
Load Resistance	65 to 80 $\Omega$
Operating Temperature Range	0 to +70 °C
Storage Temperature Range	-25 °C to +85 °C

### SPECIFICATION

Linearity	0.1% of nominal primary current
Limit of Linearity	$\pm 37\text{ A peak}$
Overall accuracy	0.5% of nominal primary current
Output Offset Current	$< \pm 100\ \mu\text{A}$ at primary current = 0
Output Offset Current after Overload	$< \pm 250\ \mu\text{A}$ at primary current = 0
Zero Offset/Temperature	$< 3\ \mu\text{A}/^\circ\text{C}$
Zero Offset / Supply Variation	$< 2\ \mu\text{A}/\text{V}$
Coil Resistance	59 $\Omega$
Primary Conductor Resistance	0.7 m $\Omega$
Bandwidth ( 1dB )	dc to 25 kHz
di/dt following	$> 50\ \text{A}/\mu\text{S}$
Delay time	1.2 $\mu\text{S}$
dV/dt Immunity	10 kV/ $\mu\text{S}$
Proof Stress Voltage	4.0 kV ac, rms, 50 Hz for 1 minute
Creepage Distance	8.0 mm
Clearance Distance	8.0 mm

### GENERAL DATA

Weight	11.4 g nominal
Housing	PBT 15% Glass filled, Flammability Rating V0, CTI Rating $>140$
Mounting	Direct mounting to PCB by 5 pins
Primary Conductor Material	Copper, tin plated
Signal Sense	Positive output obtained when current flows as shown in connection diagram