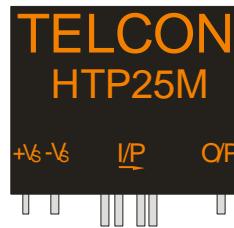




Speciality Magnetic Components

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 Ω
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 Ω
Primary Conductor Resistance	0.7 m Ω
Bandwidth (1dB)	dc to 25 kHz
di/dt following	$> 50\text{ A}/\mu\text{S}$
Delay time	1.2 μS
dV/dt Immunity	10 kV/ μS
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