Hall Current Sensor CYHCS007-B

Electrical Data/Input

Primary Nominal RMS Current I_r (A)	Primary Current Measuring Range I_p(A) at Vcc=15V	Aperture (mm)	Part Number
50	± 150	20x10	CYHCS-G0500-B
100	± 300	20x10	CYHCS-G1000-B
200	± 600	20x10	CYHCS-G2000-B
300	± 900	20x10	CYHCS-G3000-B
400	± 900	20x10	CYHCS-G4000-B
500	± 900	20x10	CYHCS-G5000-B
600	± 900	20x10	CYHCS-G6000-B

Supply Voltage	V_{cc}= ±15V ± 5%,
Current Consumption	I_c < 20mA
RMS Voltage for 2.5kV AC isolation test, 50/60Hz, 1min,	V_{is} <10mA
Isolation Resistance at 500V DC	R_{is} >500 MΩ

Electrical Data/Output

Output Voltage at I_r, T_A=25°C:	V_{out} = 4V
Output Impedance:	R_{out} < 150Ω
Load Resistor:	R_L > 10kΩ

Accuracy

Accuracy at I_r, T_A=25°C (without offset),	X <1.0%
Linearity from 0 to I_r, T_A=25°C,	E_L <1.0%
Electric Offset Voltage, T_A=25°C,	V_{oe} <40mV
Magnetic Offset Voltage (I_r →0)	V_{om} <±15mV
Thermal Drift of Offset Voltage,	V_{ot} <2mV/°C
Thermal Drift (-10°C to 50°C),	T.C. < ±0.1% /°C
Response Time at 90% of I_P (f=1k Hz)	t_r < 3µs
Frequency Bandwidth (-3dB),	f_b = 50 kHz

General Data

Ambient Operating Temperature,	T_A = -10°C ~ +80°C
Ambient Storage Temperature,	T_S = -25°C ~ +85°C

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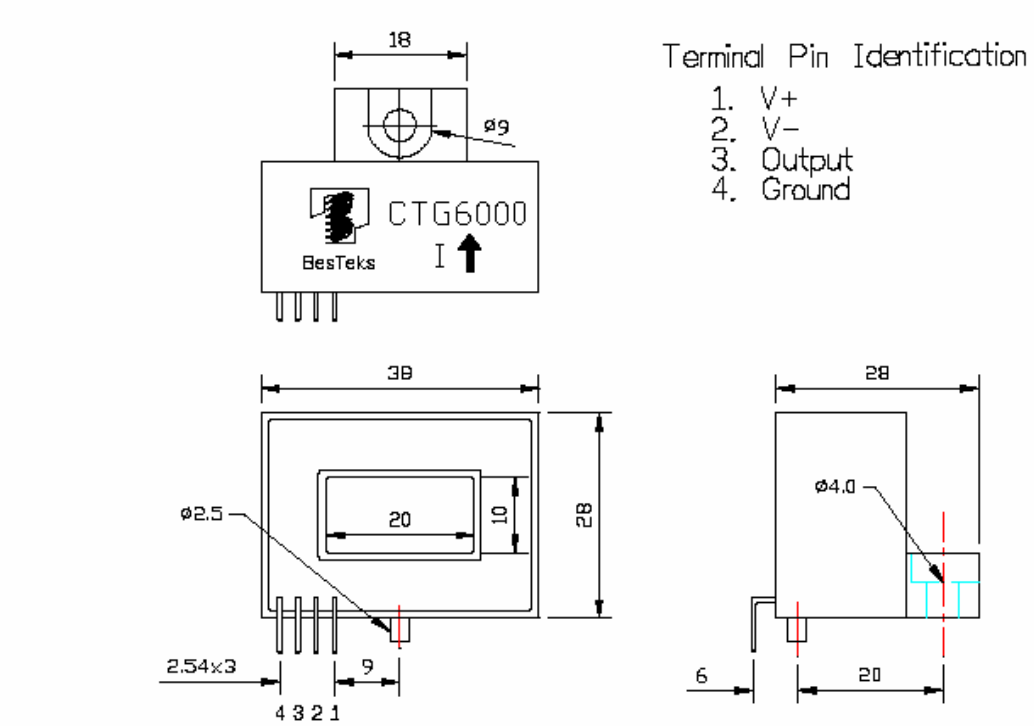
PIN Definition and Dimensions



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