RAZTEC (NZ) LIMITED
ISO 9001

RAZC-2

Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Operating Temperature	T_A	-40 to +85	^{0}C
Storage Temperature	T_{stg}	-65 to +150	^{0}C
Supply Voltage	Vs	8	V
Output Sinking Current	Io	10	mA
Measured Current	Im	Limited by conductor	A

Characteristics (T_A = 25^{0}C unless stated, Vs = 5V)

Parameter	Symbol	Lower Limit	Typical	Upper Limit	Unit
Supply Current (no load)	Is			11[1]	mA
Supply Voltage	Vs	4.5	5.0	6.0	V
Current range for <+/-1% error (-25 to +85^{0}C)	I_m	+/-100			A
Power-on settling time to 99%	t_{po}			15	µs
Null Output Voltage	Vo	2.4	2.5	2.6	V
Transfer Function (per turn, -25^{0}C to +85^{0}C)	ΔV/I	11.4	15	19.3	mV/A
Combined non-linearity and hysteresis error (+/-100A, -25^{0}C to +85^{0}C)				1.0	%
Null drift due to temperature change	$TC_{\Delta Vo/Vo}$			+/-0.25	mV/K
Gain change due to temperature change	TC_G	-0.1	0.1	0.18	%/K
Rise time 0 to 20AT	t_r			14	µs
Frequency response	f_{-3dB}		35		kHz
Output resistance	R_o		2	5	Ω

[1] **For lower supply current requirements, fast stabilization allows pulsed supply current operation. Typically 50µA achievable for AC operation.**

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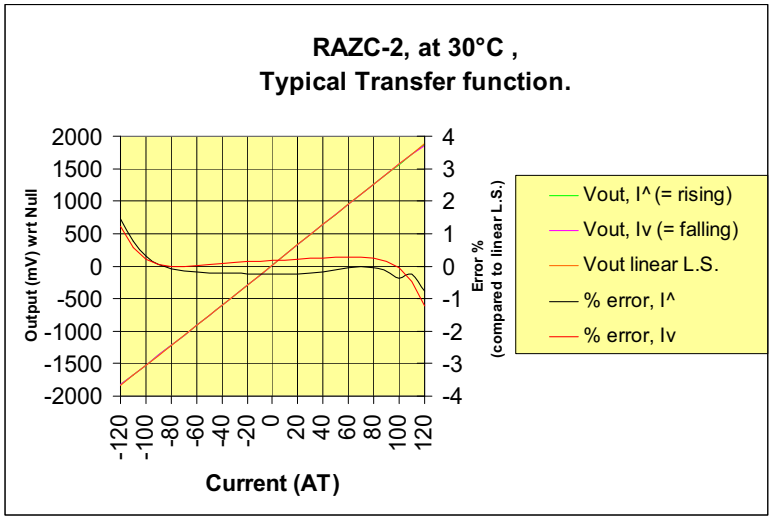

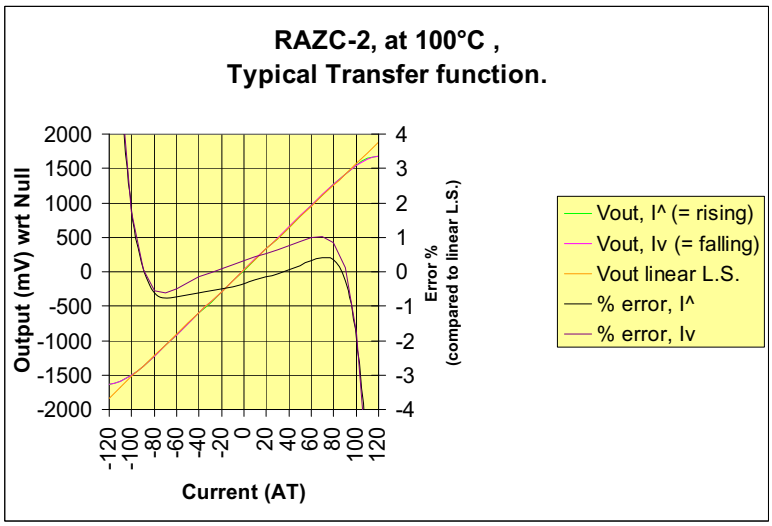

Raztec (NZ) Ltd operate a continuous product improvement program, therefore information contained in our datasheets may not reflect all current features.
For clarification please contact sales@raztec.co.nz

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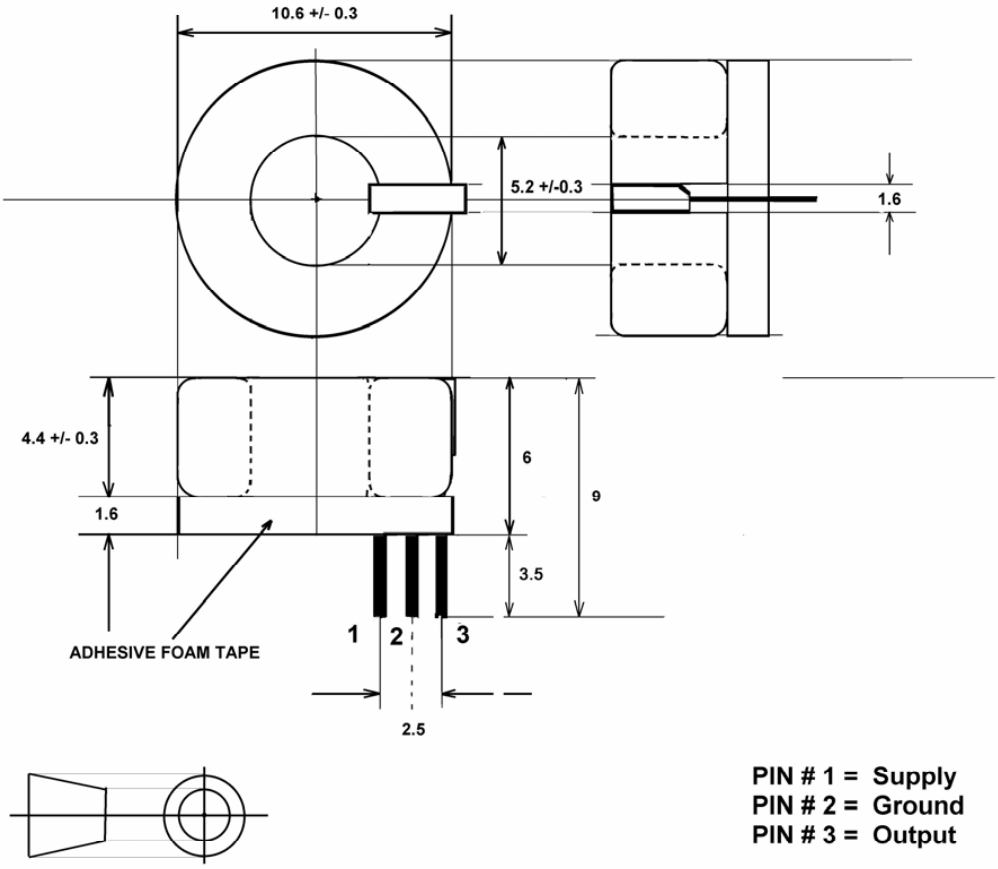

PIN # 1 = Supply
PIN # 2 = Ground
PIN # 3 = Output

TOLERANCES:
0.X = +/- 0.1
0.XX = +/- 0.02

29/8/05 Lead length extended from 3mm to 3.5mm
29/8/05 Magnetic sensor package size reduced

PRODUCT: RAZC	SCALE: NTS	DRG # 290805
RAZTEC (NZ) LTD	DATE: 28th September 2000	
	DRAWN: / CHECKED:	REVISION: 1.1

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