

## RAZC-2-FL PERFORMANCE CHARACTERISTICS



### CONFIGURATION

#### *Maximum Ratings ( $T_a = 25^\circ\text{C}$ )*

Parameter	Symbol	Value	Unit
Operating Temperature	$T_A$	-40 to +85	$^\circ\text{C}$
Storage Temperature	$T_{\text{stg}}$	-65 to +150	$^\circ\text{C}$
Supply Voltage	$V_s$	8	V
Output sinking current	$I_o$	10	mA
Measured Current	$I_m$	Limited only by conductor	A

#### *Characteristics ( $T_A = 25^\circ\text{C}$ )*

Parameter	Symbol	Lower Limit	Typical	Upper Limit	Unit
Supply Current	$I_s$			11	mA
Supply Voltage	$V_s$	4.5	5.0	6.0	V
Current Range for <math>\pm 1\%</math> error (-25 to +85°C)	$I_m$	$\pm 80$			A
Power-on settling time to 99%	$t_{po}$			15	$\mu s$
Null Output ( $V_s = 5V$ )	$V_o$	2.4	2.5	2.6	V
Transfer Function (per turn)	$\Delta V/I$	15.6	16	16.4	mV/A
Combined non-linearity and hysteresis error ( $\pm 100A$ , -25 to +85°C)			0.5	1.5	%
Output error due to 5mm diameter wire position				+/-0.1	%
Hysteresis (0 to 50AT)	Hys		0.1		%
Null drift due to temperature change	$TC_{\Delta V_o/V_o}$			$\pm 0.25$	mV/K
Gain Change due to temperature change	$TC_G$	-0.1	+0.1	0.18	%/K
Risetime 0 to 20AT	$t_r$		14		$\mu s$
Frequency Response	$f_{-3dB}$		35		kHz
Output Resistance	$R_o$		2	5	$\Omega$



