![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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SIDEWINDER® - CURRENT SENSOR

PA3207NL Series

Pulse ELECTRONICS

RoHS COMPLIANT

- *Unique, non-round shape*
- *Fits ANSI buss bar of 0.750" x 0.093"*
- *Dynamic Range from 0.1 to 1000 Amps*
- *Meets ANSI C12.20 Accuracy Class 0.2*
- *Phase error < 0.05 degree*
- *Bandwidth 120KHz*
- *Immune to external AC magnetic fields*
- *Immune to DC current & magnetic field*
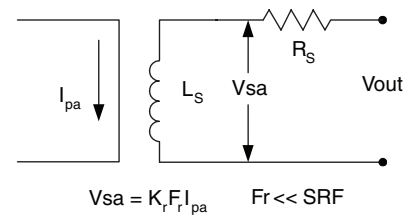- *Low temperature coefficient*
- *Patent pending*

	Electrical Specifications at 25°C Temp Range -40°C to 130°C						Actual Secondary Output Voltage (Vsa)	
	Accuracy	Kr[4]	Pri-Sec	Ls[5]	Rs[6]	SRF[7]		
Part Number	Class[3]	($\mu\Omega$/Hz typ)	Isolation (V min)	(mH typ)	(Ohms typ)	(Hz typ)	@ 50 Hz (μV/A)[1]	@ 60 Hz (μV/A)[1]
PA3207NL	0.2	8.16	6,000	1.86	66.0	120,000	408	490

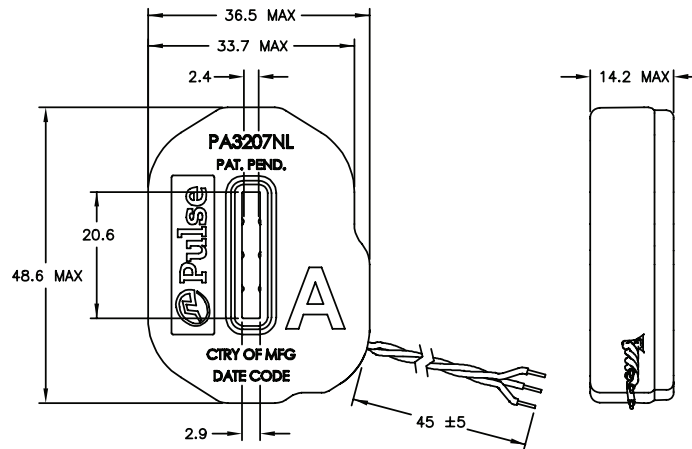**EQUATIONS:** $Vsa = K_r F_r I_{pa}$
$F_r \ll SRF$

NOTES:
1. *Output Voltage is proportional to the derivative (di/dt) of the input current based on the Rogowski Coil principle.*
2. *All current and voltages assumed to be sinusoidal waveforms at Fr, the constant rated frequency in Hz, measured as RMS values.*
3. *Accuracy Class per IEC 60044-1 Table 11 where:*
   - *Percentage current error = ((Kr•Fr•Ipa - Vout) / Vout) x 100*
   - *Phase displacement = the difference between the primary current (Ipa) phase vector and the (secondary voltage (Vout) phase vector minus 90 degrees), in minutes*
4. *Kr = Rated transformation constant*
5. *Ls = Secondary winding inductance*
6. *Rs = Secondary winding resistance*
7. *SRF = Self Resonate Frequency*
8. *Ipa = Actual primary current*
9. *Vsa = Actual secondary output voltage*
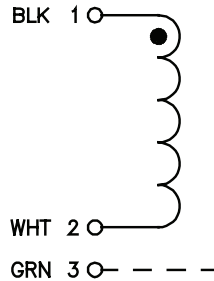
Low Frequency Equivalent Circuit

$Vsa = K_r F_r I_{pa}$ $Fr \ll SRF$

Mechanical

PA3207NL

SIDEWINDER® - CURRENT SENSOR
PA3207NL Series

Pulse
Electronics

Schematic

PA3207NL

BLK 1
WHT 2
GRN 3

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