



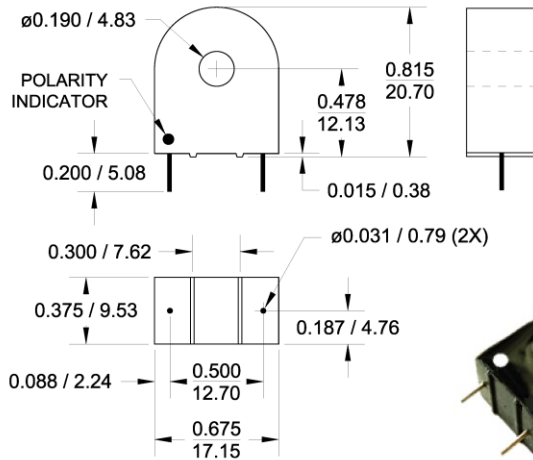
# 9.5 A Current Transformer Model R21

### Electrical Specifications:

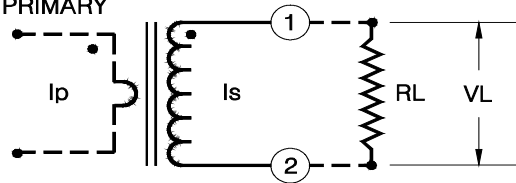
Turns Ratio: 200:1 Nominal.  
 Max output Voltage: 1.2 Vrms at 60Hz.  
 Operating Frequency Range: 20 Hz. - 50 kHz.  
 Rated Current: 9.5 A for 2 ohm load, 60 Hz. See chart and table below for rated currents at other terminating resistors.  
 DC Resistance at 20°C:  $1.8 \pm 10\%$  OHMS  
 Series inductance at 0.1V, 50Hz.: 320mH MIN.  
 Dielectric Withstanding Voltage (DWV): 4 kV

### Other Specifications:

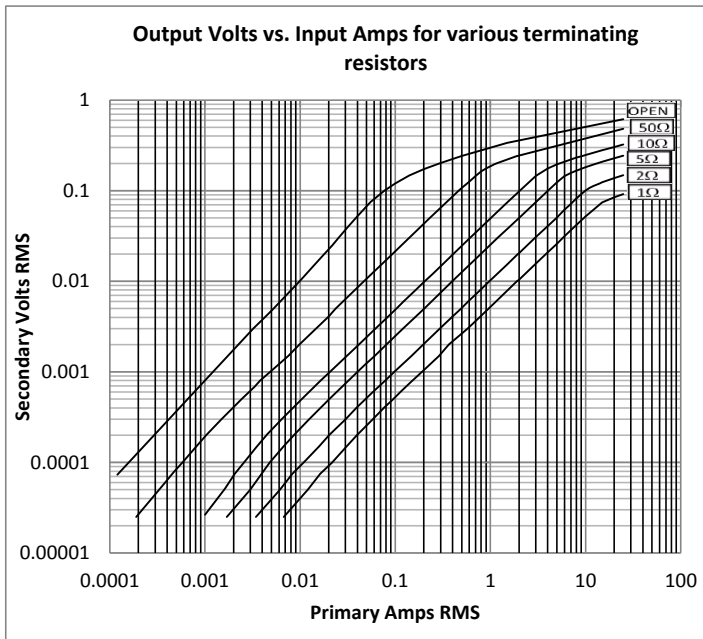
Flammability: Conforms to UL94-V0  
 Pins: Tin plated round copper, 0.032" dia (#20 AWG)  
 Storage Temp. Range: -55°C- +130°C  
 Line current for 30°temperature rise: 71 Arms of  
 Net wt.: 6.4 gm.  
 All dimensions are in inches/mm.  
 Tolerance:  $\pm 0.005 / 0.13$   
 Marking: GMR21 YY-WW (datecode)



### 1-TURN PRIMARY



$I_p$ : primary Current  
 $I_s$ : Secondary current  
 $V_L$ : Output voltage across load RL  
 $R_L$ : Terminating Resistor  
 In the linear range,  
 $I_p = V_L \times N / R_L$   
 Where N is the nominal ratio of the transformer.



### Notes:

- 1: The terminating resistor and the one-turn primary are not supplied.
- 2: Dot indicates pin with positive polarity when positive current flows into face with dot on it.
- 3: For Right pin polarity, add -R to P/N. ie. R21-R
- 4: Custom marking available at no extra charge.
- 5: Other ratios available upon request.

Linear Range of Operation		
Load Resistor RL OHM	Volts per Amp (V/A)	Current Range for $\pm 1\%$ Accuracy
1	0.005	50 mA - 13.0 A
2	0.01	50 mA - 9.5 A
5	0.025	20 mA - 5.3 A
10	0.05	20 mA - 3.0 A
50	0.25	20 mA - 0.70 A

Values are for 60 Hz. Reduce top end of current range by 20% at 50 Hz.

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