

## **Murata Power Solutions**

## 5300 Series

**10A Current Sensing Transformers** 



## **FEATURES**

- RoHS compliant
- Primary current rating 10A
- 20 to 200 turn variants
- Primary to secondary isolation 500Vrms
- 50kHz-500kHz frequency range
- Surface mount
- Industry-standard footprint
- UL94 V-0 package materials
- J-STD-020C reflow

## **PRODUCT OVERVIEW**

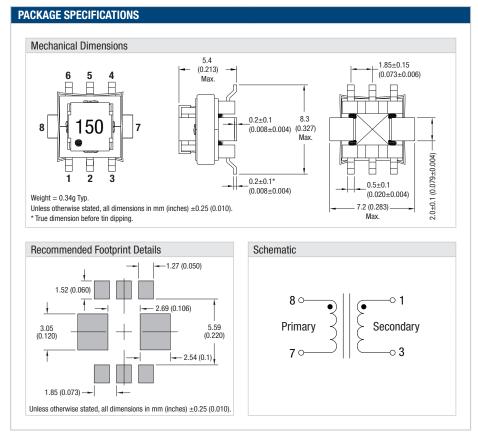
The 5300 series of current sense transformers are designed to monitor AC currents. The transformers can be used for high frequency current sensing in applications such as switched-mode power supplies, motor control, and electronic lighting ballasts.



SELECTION GUIDE								
Order Code	Turns Ratio	Min. Secondary Inductance	Max. DC Resistance		Isolation Voltage <sup>1</sup>	Terminating Resistance to produce 1Vout/1Ain		
			Primary (8-7)	Secondary (1-3)		1		
		mH	mΩ	Ω	Vrms	Ω		
53020C	1:20	0.08	7.0	0.55	500	20		
53030C	1:30	0.18	7.0	0.85	500	30		
53040C	1:40	0.32	7.0	1.10	500	40		
53050C	1:50	0.50	7.0	1.75	500	50		
53060C	1:60	0.72	7.0	2.20	500	60		
53070C	1:70	0.98	7.0	4.50	500	70		
53100C	1:100	2.00	7.0	5.60	500	100		
53125C	1:125	3.00	7.0	7.50	500	125		
53150C	1:150	4.50	7.0	17.50	500	150		
53200C	1:200	8.00	7.0	34.00	500	200		

ABSOLUTE MAXIMUM RATINGS				
Operating free air temperature range	-40°C to 125°C			
Storage temperature range	-40°C to 155°C			

SOLDERING INFORMATION <sup>2</sup>					
Peak reflow solder temperature	250°C				
Pin finish	Tin				
Moisture sensitivity level	1				

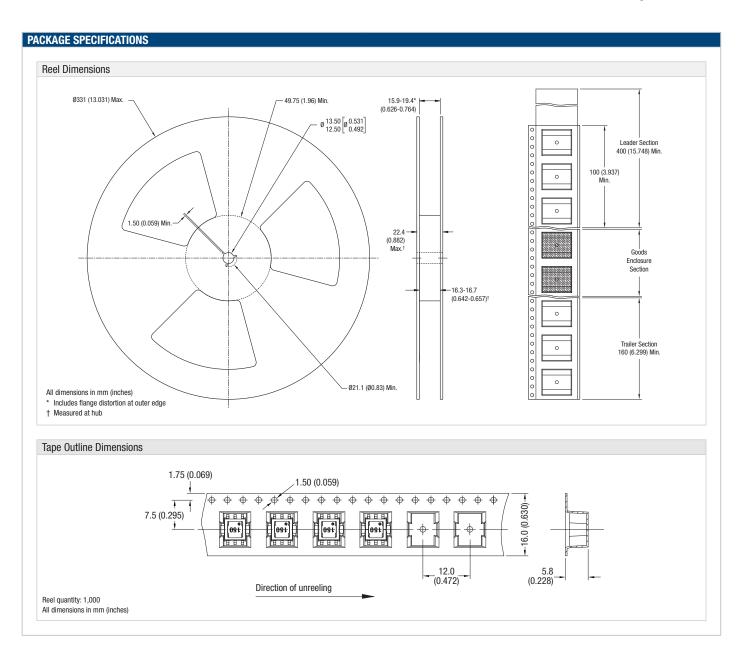


Specifications typical at  $T_A = 25^{\circ}C$ 

- 1 Flash tested for 1 second.
- 2 For further information, please visit www.murata-ps.com/rohs



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This product is subject to the following operating requirements and the Life and Safety Critical Application Sales Policy:

Refer to: http://www.murata-ps.com/requirements/

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