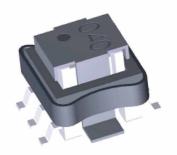


5300 Series

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.

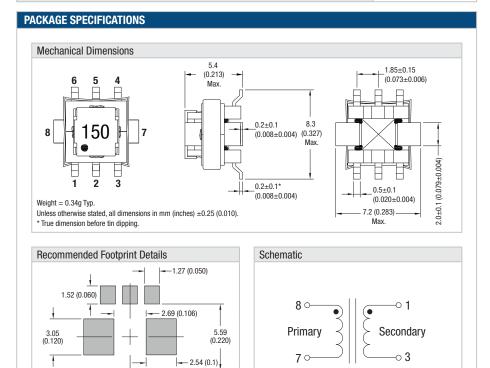




SELECTION GUIDE								
Order Code	Turns Ratio	Min. Secondary Inductance	Max. DC Resistance		Isolation Voltage ¹	Terminating Resistance to produce 1Vout/1Ain		
			Primary (8-7)	Secondary (1-3)	Tollago	to produce 11001/11 iii		
		mH	$m\Omega$	Ω	Vrms	Ω		
53020C	1:20	0.08	7.0	0.55	500	20		
53030C	1:30	0.18	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 ²					
Peak reflow solder temperature	250°C				
Pin finish	Tin				
Moisture sensitivity level	1				



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

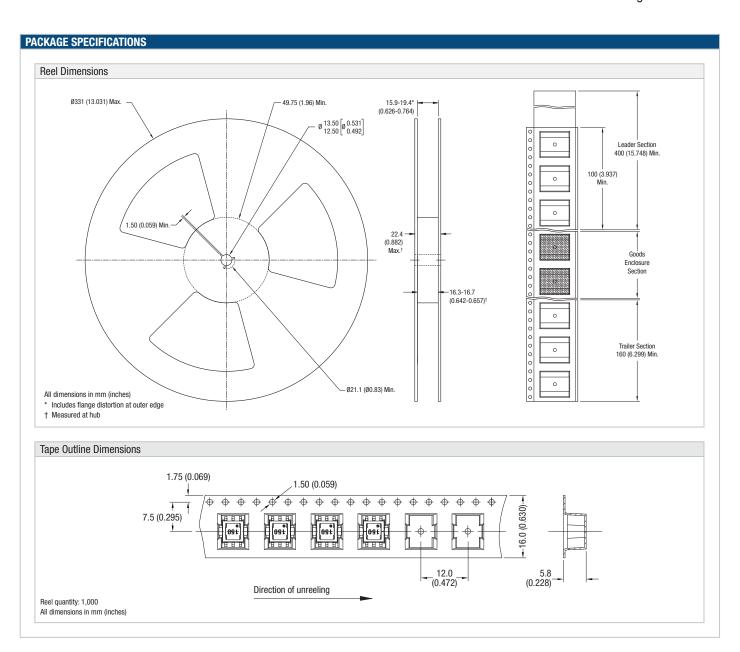
1.85 (0.073)

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

Unless otherwise stated, all dimensions in mm (inches) ± 0.25 (0.010).



10A Current Sensing Transformers





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DISCLAIMER

Unless otherwise stated in the datasheet, all products are designed for standard commercial and industrial applications and NOT for safety-critical and/or life-critical applications.

Particularly for safety-critical and/or life-critical applications, i.e. applications that may directly endanger or cause the loss of life, inflict bodily harm and/or loss or severe damage to equipment/property, and severely harm the environment, a prior explicit written approval from Murata is strictly required. Any use of Murata standard products for any safety-critical, life-critical or any related applications without any prior explicit written approval from Murata shall be deemed unauthorised use.

These applications include but are not limited to:

- Aircraft equipment
- Aerospace equipment
- Undersea equipment
- Power plant control equipment
- Medical equipment
- Transportation equipment (automobiles, trains, ships, etc.)
- Traffic signal equipment
- Disaster prevention / crime prevention equipment
- Data Processing equipment

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Refer to: https://www.murata.com/en-eu/products/power/requirements

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