

## **Murata Power Solutions**

# 5500 Series

# 15A Current Sensing Transformers



#### **FEATURES**

- RoHS compliant
- Primary current rating 15A<sup>4</sup>
- 50, 100, & 200 turn variants
- Primary to secondary isolation 1000Vrms
- 50kHz-500kHz frequency range
- Surface mount
- Industry-standard footprint
- UL94 V-0 package materials
- Tube or tape & reel packaging available
- J-STD-020C reflow

#### **PRODUCT OVERVIEW**

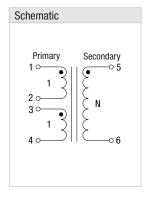
The 5500 series of current sense transformers are designed to monitor AC currents. The transformers can be used for high frequency current sensing in applications such as switched-mode power supplies, motor control, and electronic lighting ballasts.

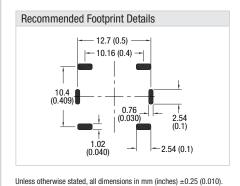
SELECTION GUIDE									
Order	Turns Ratio	Min. Secondary Inductance	Max. DC Resistance		Isolation Voltage <sup>2</sup>	Terminating Resistance to produce 1Vout/1AiN			
Code <sup>1</sup>			Primary (1,3-2,4)	Secondary (5-6)	(Pri-Sec)	±0.1%			
		mH	mΩ	mΩ	Vrms	Ω			
55050C	1:1:50	3.8	2.3	350	1000	50			
55100C	1:1:100	14.8	2.3	850	1000	100			
55200C	1:1:200	60.0	2.3	3600	1000	200			

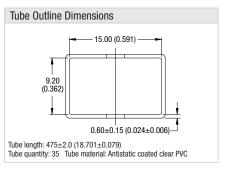
ABSOLUTE MAXIMUM RATINGS					
Operating free air temperature range	-40°C to 125°C				
Storage temperature range	-40°C to 140°C				

SOLDERING INFORMATION <sup>3</sup>						
Peak reflow solder temperature	245°C					
Pin finish	Reflowed tin					

## **PACKAGE SPECIFICATIONS Mechanical Dimensions** 2 5 antitions. 14.6 nuRata Ps (0.575)55XXXC Max. **XYYWW** 12.6 (0.496)Max. 7.1 (0.280) Max. S x4 Places 0.13 (0.005) S Weight = 1.7g Typ.







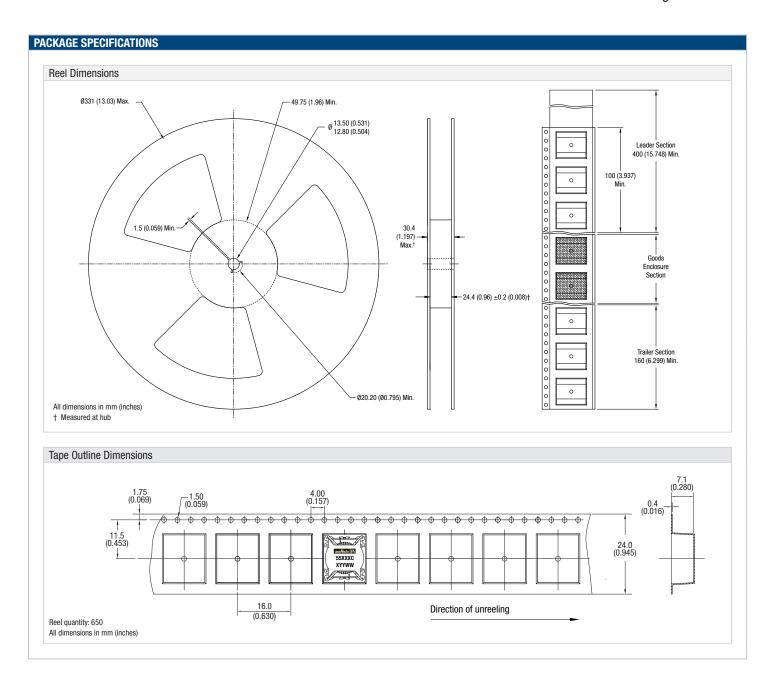
Specifications typical at T<sub>A</sub> = 25°C

- 1. If components are required in tape and reel format suffix order code with -R, e.g. 55050C-R.
- 2. Flash tested for 1 second.
- 3. For further information, please visit www.murata-ps.com/rohs
- 4. Primary windings connected in parallel.





15A Current Sensing Transformers



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