# 5400 Series

**15A Current Sensing Transformers** 





#### **FEATURES**

- RoHS compliant
- Primary current rating 15A<sup>3</sup>
- 50, 100 and 200 turn variants
- Frequency range 50kHz to 500kHz
- Surface mount
- Compact package
- UL94 V-0 package materials
- J-STD-020C reflow

#### **PRODUCT OVERVIEW**

The 5400 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.

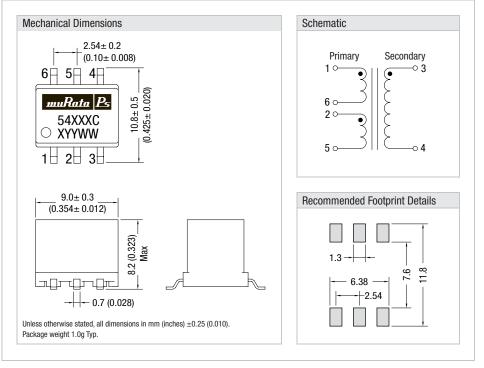
#### SELECTION GUIDE Min. Secondary Ma

		Min. Secondary	Max. DC Resistance		Isolation	Terminating Desistance	
Order Code	Turns Ratio	Inductance (0.1V @ 10kHz)	Primary (1-6, 2-5)	Secondary (3-4)	Voltage <sup>1</sup> (Pri-Sec)	Terminating Resistance to produce 1Vout/1AIN	
		mH	mΩ	Ω	kVrms	Ω	
54050C	1:1:50	3.8	7.0	0.5	1.2	50	
54100C	1:1:100	14.8	7.0	3.2	1.2	100	
54200C	1:1:200	60.0	7.0	6.6	1.2	200	

ABSOLUTE MAXIMUM RATINGS				
Operating free air temperature range	-40°C to 125°C			
Storage temperature range	-40°C to 150°C			

SOLDERING INFORMATION <sup>2</sup>				
Peak reflow solder temperature	245°C			
Pin finish	Tin			
Moisture sensitivity level	1			

### PACKAGE SPECIFICATIONS



All specifications typical at T,=25°C

- 1. Flash tested for 1 second.
- 2. For further information, please visit www.murata-ps.com/rohs
- 3. Primary windings connected in parallel.



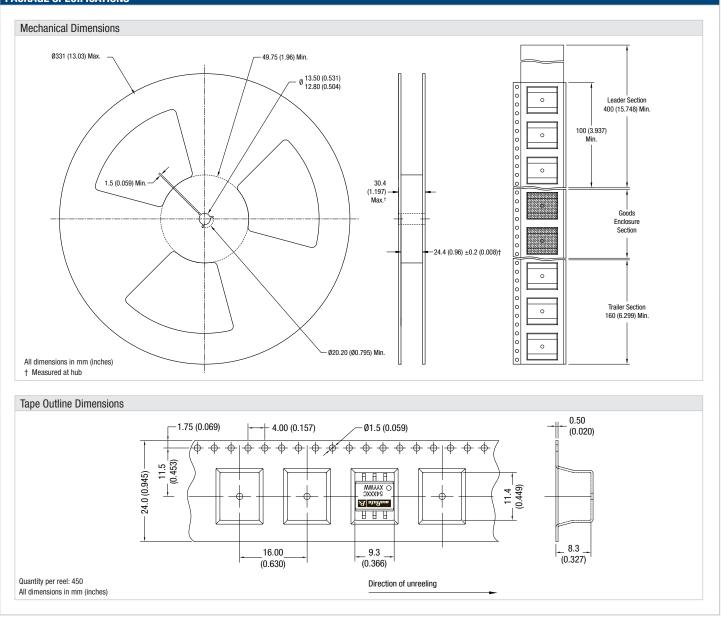
www.murata-ps.com/support



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#### PACKAGE SPECIFICATIONS



Murata Power Solutions, Inc. 11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A. ISO 9001 and 14001 REGISTERED

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Murata: <u>54100C</u> <u>54050C</u> <u>54200C</u>