

5600 Series

10A Current Sensing Transformers



- RoHS compliant
- 50, 100, 200 & 300 Turn variants
- Primary current rating 10A
- 20kHz-200kHz frequency range
- Centre tapped variants available

DESCRIPTION

The 5600 series of current sense transformers are designed to monitor AC currents. They can be used for high frequency current sensing, for example in switched-mode power supplies, motor control and electronic lighting ballasts.

SELECTION GUIDE					
Order Code	Number of Turns	Inductance Range	DC Resistance	Terminating Resistance to Produce 1Vout/1AIN	
	±1Turn	Pins 1&3	Pins 1&3, Ω	Ω	
56050C	50	5.00 - 9.30mH @1V, 50kHz	0.133 - 0.199	50	
56100C	100	20.0 - 37.0mH @1V, 50kHz	0.93 - 1.40	100	
56200C	200	80.0 - 150mH @1V, 10kHz	1.87 - 2.81	200	
56300C	300	180 - 335mH @1V, 10kHz	5.73 - 8.59	300	
56T100C	100CT	20.0 - 37.0mH @1V, 50kHz	0.93 - 1.40	100	
56T200C	200CT	80.0 - 150mH @1V, 10kHz	1.87 - 2.81	200	
56T300C	300CT	180 - 335mH @1V, 10kHz	5.73 - 8.59	300	

ABSOLUTE MAXIMUM RATINGS				
Operating free air temperature range	-40°C to 85°C			
Storage temperature range	-40°C to 125°C			

SOLDERING INFORMATION ¹			
Peak wave solder temperature	300°C for 10 seconds		
Pin finish	Tin		

TECHNICAL NOTES

ISOLATION VOLTAGE

All 5600 current sense transformers are tested at 500Vdc for a minimum of 1 second during our standard test procedure.

In addition, as part of our qualification process carried out prior to product launch, the 5600 series demonstrated no isolation breakdown at 10kVdc or 6kVac with a bare conductor as the primary winding. Whilst this does not imply these parts are designed for environments where such high voltages may be present, it does demonstrate the level of isolation voltage these products are able to withstand. Full mains safety isolation can be achieved with appropriately insulated wire on the primary winding.

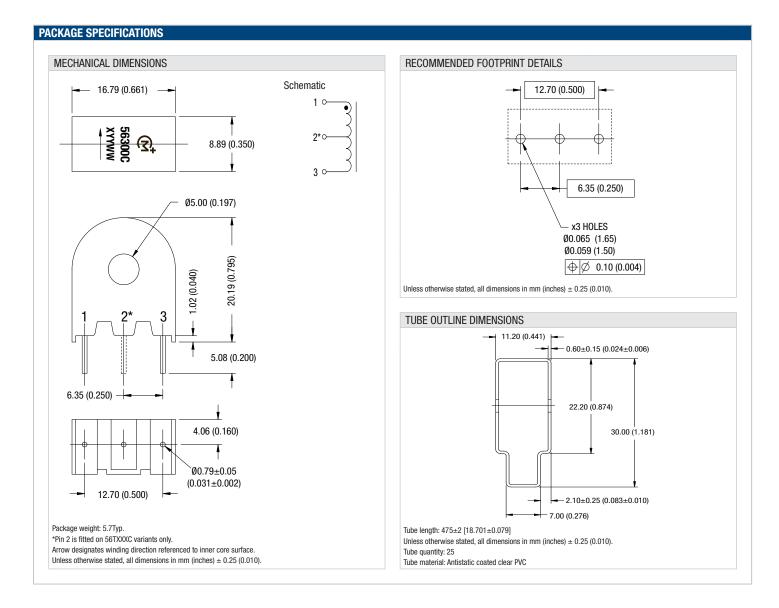
Specifications typical at $T_A = 25$ °C

1 For further information, please visit www.murata-ps.com/rohs





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muRata Ps Murata Power Solutions

Murata Power Solutions, Inc.

11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A. Tel: (508) 339-3000 (800) 233-2765 Fax: (508) 339-6356

www.murata-ps.com email: sales@murata-ps.com ISO 9001 REGISTERED

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© 2008 Murata Power Solutions, Inc. USA: Mansfield (MA), Tel: (800) 233 2765, email: sales@murata-ps.com Toronto, Tel: (866) 740 1232, email: toronto@murata-ps.com

UK: Milton Keynes, Tel: +44 (0)1908 615232, email: mk@murata-ps.com

Montigny Le Bretonneux, Tel: +33 (0)1 34 60 01 01, email: france@murata-ps.com

Germany: München, Tel: +49 (0)89-544334-0, email: ped.munich@murata-ps.com

Tokyo, Tel: 3-3779-1031, email: sales_tokyo@murata-ps.com Japan: Osaka, Tel: 6-6354-2025, email: sales_osaka@murata-ps.com

Website: www.murata-ps.jp

China: Shanghai, Tel: +86 215 027 3678, email: shanghai@murata-ps.com

Guangzhou, Tel: +86 208 221 8066, email: guangzhou@murata-ps.com