

46153C Datasheet

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DiGi Electronics Part Number 46153C-DG

Manufacturer Murata Power Solutions Inc.

Manufacturer Product Number 46153C

Description FIXED IND 15UH 2.2A 94 MOHM SMD

Detailed Description 15 µH Shielded Wirewound Inductor 2.2 A 94mOhm

Max Nonstandard



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DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:	
46153C	Murata Power Solutions Inc.	
Series:	Product Status:	
4600	Active	
Type:	Material - Core:	
Wirewound		
Inductance:	Tolerance:	
15 μH	±20%	
Current Rating (Amps):	Current - Saturation (Isat):	
2.2 A		
Shielding:	DC Resistance (DCR):	
Shielded	94mOhm Max	
Q @ Freq:	Frequency - Self Resonant:	
Ratings:	Operating Temperature:	
	-40°C ~ 125°C	
Inductance Frequency - Test:	Mounting Type:	
10 kHz	Surface Mount	
Package / Case:	Supplier Device Package:	
Nonstandard		
Size / Dimension:	Height - Seated (Max):	
0.287" L x 0.287" W (7.30mm x 7.30mm)	0.179" (4.55mm)	
Base Product Number:		
16		

Environmental & Export classification

8504.50.4000

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	



4600 Series

Shielded Surface Mount Power Inductors



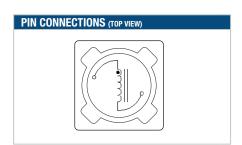
FEATURES

- RoHS compliant
- 0.28µH to 1.0mH
- Up to 8.7A loc
- Bobbin format
- Surface mount
- Integral EMI shield
- Compact size
- Tape and reel packaging
- UL 94V-0 materials
- J-STD-020-C reflow

DESCRIPTION

The 4600 series is a range of bobbin-wound, shielded inductors suitable for power-line filtering found in consumer electronics such as desktop computers, LED applications and GPS systems, as well as in a vast range of industrial and telecom applications including network hubs, bridges & routers, and high frequency wireless communication devices.

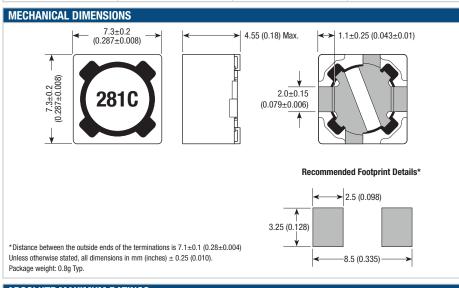
These surface mount inductors are extremely compact and have an integral shield, making them useful in EMI sensitive applications.







SELECTION GUIDE Inductance DC Current¹ (10kHz, 0.1VAc) DC Resistance ±20% Order Code Nom. Max. Max. μΗ Α $\text{m}\Omega$ 46281C 0.28 (±30%) 8.7 8 46541C 7.7 10 0.54 (±30%) 46102C 13 1.0 (±30%) 6.8 46152C 1.5 (±30%) 6.3 15 21 46222C 2.2 (±30%) 5.0 46332C 3.3 (±30%) 4.3 29 46472C 37 4.7 (±30%) 3.7 46682C 6.8 (±30%) 3.1 52 66 46103C 10 2.4 46153C 15 2.2 94 46223C 22 1.8 120 46333C 33 1.45 190 46473C 47 1.25 260 46683C 68 1.05 360 46104C 100 0.86 500 46154C 150 0.72 720 46224C 220 0.57 1050 46334C 330 0.46 1850 46474C 470 0.39 2800 46684C 680 0.32 3900 46105C 1000 0.27 4900



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

SOLDERING INFORMATION ²	
Peak reflow solder temperature	250°C
Pin finish	Tin

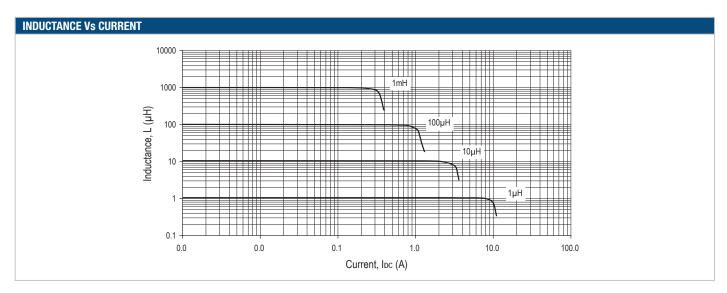
Specifications typical at $T_{\Delta} = 25^{\circ}C$

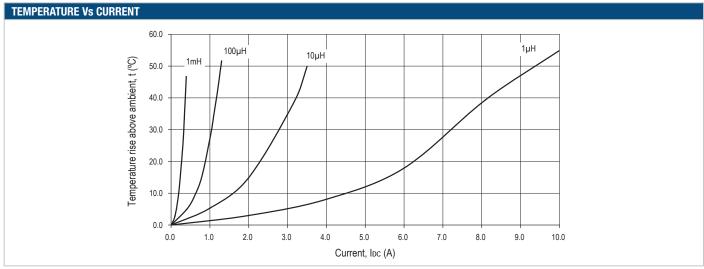
- 1 Maximum DC current occurs when either the inductance falls to 75% of its
- nominal value or when its temperature rise reaches 40°C, whichever is sooner.
- 2 For further information, please visit www.murata-ps.com/rohs

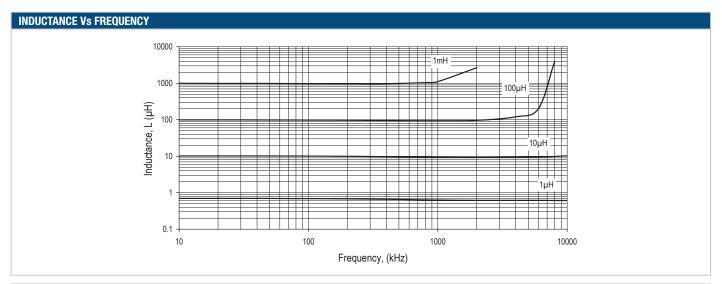
muRata Ps Murata Power Solutions

4600 Series

Shielded Surface Mount Power Inductors



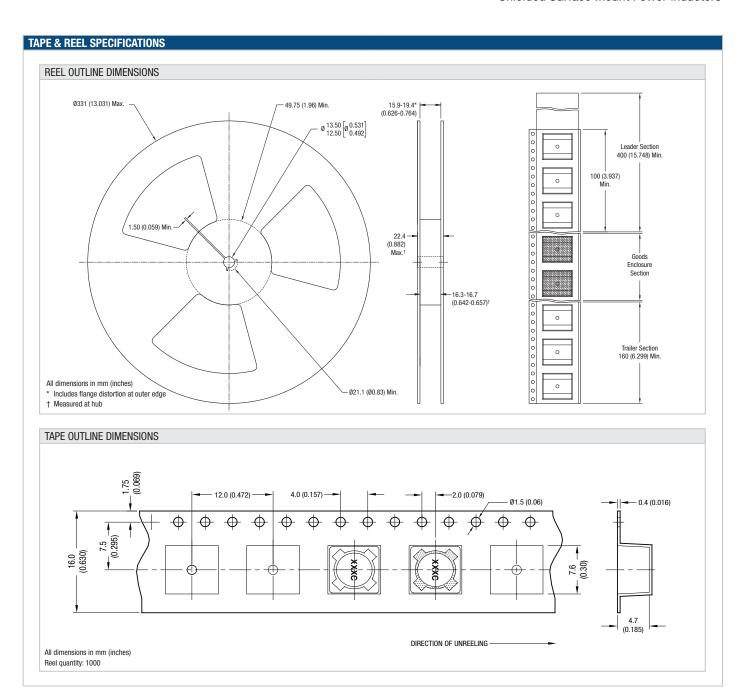






4600 Series

Shielded Surface Mount Power Inductors





4600 Series

Shielded Surface Mount Power Inductors

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- Undersea equipment
- Power plant control equipment
- Medical equipment
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- 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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