

# 12RS154C Datasheet



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DiGi Electronics Part Number 12RS154C-DG

Manufacturer Murata Power Solutions Inc.

Manufacturer Product Number 12RS154C

Description FIXED IND 150UH 1.25A 230MOHM TH

**Detailed Description** 150 μH Shielded Wirewound Inductor 1.25 A 230mO

hm Max Radial, Vertical Cylinder, 4 Leads



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DiGi is a global authorized distributor of electronic components.



### **Purchase and inquiry**

Manufacturer Product Number:	Manufacturer:
12RS154C	Murata Power Solutions Inc.
Series:	Product Status:
1200RS	Active
Type:	Material - Core:
Wirewound	
Inductance:	Tolerance:
150 μΗ	±15%
Current Rating (Amps):	Current - Saturation (Isat):
1.25 A	
Shielding:	DC Resistance (DCR):
Shielded	230mOhm Max
Q @ Freq:	Frequency - Self Resonant:
Ratings:	Operating Temperature:
	-40°C ~ 85°C
Inductance Frequency - Test:	Mounting Type:
10 kHz	Through Hole
Package / Case:	Supplier Device Package:
Radial, Vertical Cylinder, 4 Leads	
Size / Dimension:	Height - Seated (Max):
0.413" Dia (10.50mm)	0.335" (8.50mm)
Base Product Number:	
12RS	

### **Environmental & Export classification**

8504.50.8000

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	Not Applicable
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	



Through Hole Radial Lead Shielded Inductors



#### **FEATURES**

Radial format

■ Integral EMI shield

Compact size

■ Up to 4.6A loc

■ 10µH to 1mH

Low DC resistance

■ UL 94V-0 materials

 Backward compatible with Sn/Pb soldering systems

SELECTION GUIDE			
Order Code	Inductance (0.1V@10kHz)	DC Current <sup>1</sup>	DC Resistance
	±15%	Max.	Max.
	μН	А	mΩ
12RS103C	10 ±20%	4.6	23
12RS153C	15 ±20%	4.0	36
12RS223C	22 ±20%	3.3	42
12RS333C	33	2.7	57
12RS473C	47	2.2	100
12RS683C	68	1.8	150
12RS104C	100	1.4	190
12RS154C	150	1.25	230
12RS224C	220	1.10	290
12RS334C	330	0.85	510
12RS474C	470	0.72	980
12RS684C	680	0.55	1200
12RS105C	1000	0.44	1500

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

SOLDERING INFORMATION <sup>2</sup>		
Peak wave solder temperature	260°C for 10 seconds	
Pin finish	Matte tin	

#### **DESCRIPTION**

The 1200RS Series of inductors is suitable for power line filtering in low to medium current applications such as switching power supply circuits. The integral ferrite shield makes these devices ideal for protecting circuits susceptible to EMI.

For lower current versions with the same footprint see our 1200LRS Series.



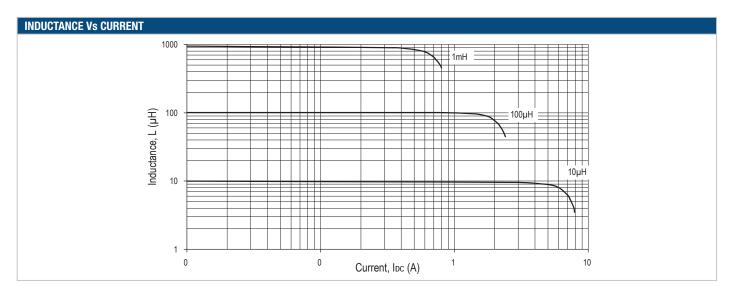


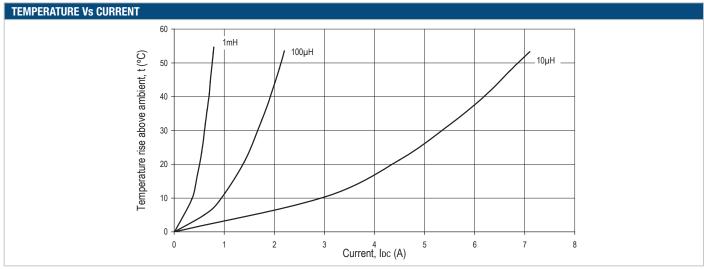
All specifications typical at T<sub>a</sub>=25°C

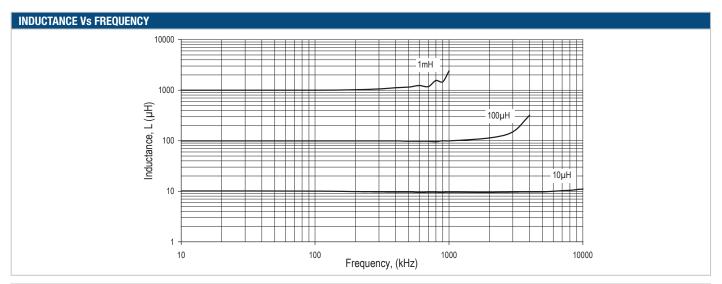
- 1 Maximum DC current occurs when either the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.
- 2 For further information, please visit www.murata-ps.com/rohs



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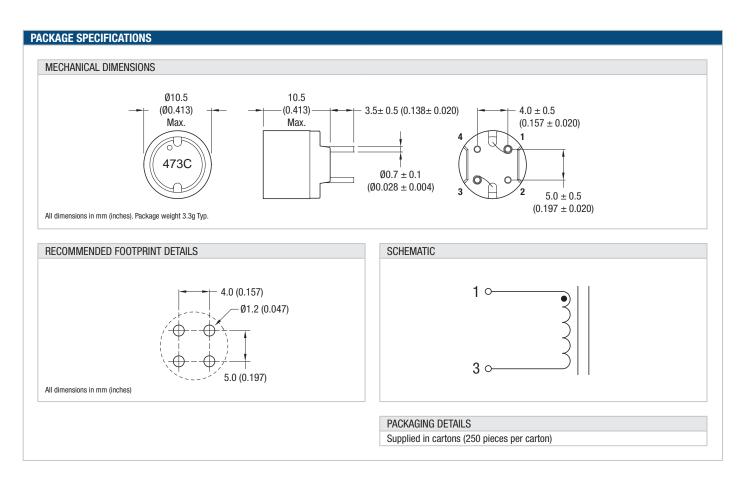








Through Hole Radial Lead Shielded Inductors





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- 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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