

# 1200RS Series

## Through Hole Radial Lead Shielded Inductors



### **FEATURES**

_			
	RoHS	comn	liant
	110110	COLLID	manı

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

#### **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.

SELECTION GUIDE					
Order Code	Inductance (0.1V@10kHz)	DC Current <sup>1</sup>	DC Resistance		
	±15%	Max.	Max.		
	μН	A	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			

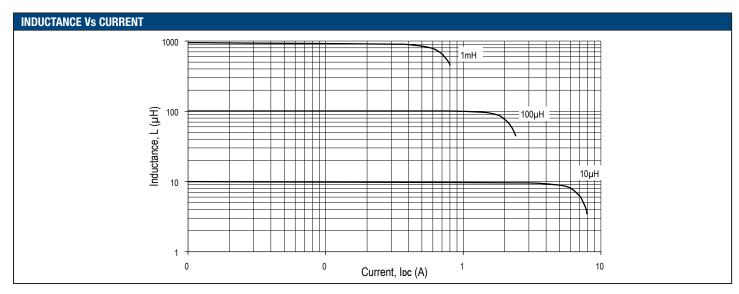
All specifications typical at  $T_A$ =25°C

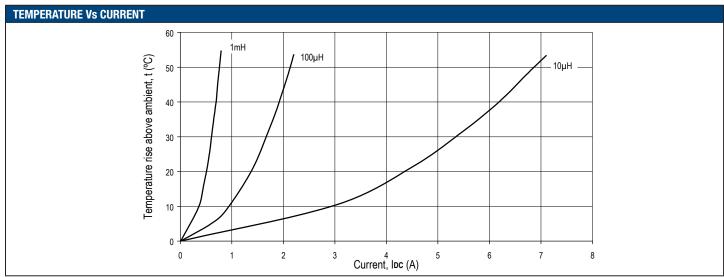
- 1 Maximum DC current occurs when either the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.
- 2 For further information, please visit www.murata-ps.com/rohs

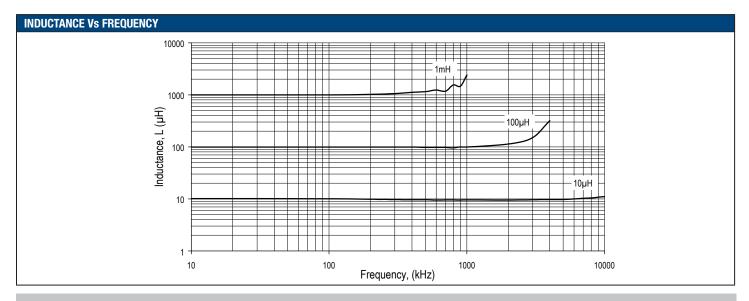




Through Hole Radial Lead Shielded Inductors







Through Hole Radial Lead Shielded Inductors

# PACKAGE SPECIFICATIONS MECHANICAL DIMENSIONS Ø10.5 10.5 (00.413)(0.413) $3.5 \pm 0.5 (0.138 \pm 0.020)$ $4.0 \pm 0.5$ Max. Max. $(0.157 \pm 0.020)$ 473C $\emptyset 0.7 \pm 0.1$ $(00.028 \pm 0.004)$ $5.0 \pm 0.5$ $(0.197 \pm 0.020)$ All dimensions in mm (inches). Package weight 3.3g Typ. RECOMMENDED FOOTPRINT DETAILS **SCHEMATIC** 4.0 (0.157) Ø1.2 (0.047) 5.0 (0.197) All dimensions in mm (inches) PACKAGING DETAILS Supplied in cartons (250 pieces per carton)