

491R0SC Datasheet



DiGi Electronics Part Number Manufacturer Manufacturer Product Number Description Detailed Description 491R0SC-DG

Murata Power Solutions Inc.

491R0SC

FIXED IND 1UH 11.8A 5 MOHM SMD

1 μH Shielded Wirewound Inductor 11.8 A 5mOhm Max Nonstandard, 4 Lead

https://www.DiGi-Electronics.com



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
491R0SC	Murata Power Solutions Inc.
Series:	Product Status:
49005	Active
Туре:	Material - Core:
Wirewound	
Inductance:	Tolerance:
1 µН	±30%
Current Rating (Amps):	Current - Saturation (Isat):
11.8 A	
Shielding:	DC Resistance (DCR):
Shielded	5mOhm Max
Q @ Freq:	Frequency - Self Resonant:
32 @ 1MHz	91MHz
Ratings:	Operating Temperature:
	-40°C ~ 85°C
Inductance Frequency - Test:	Mounting Type:
10 kHz	Surface Mount
Package / Case:	Supplier Device Package:
Nonstandard, 4 Lead	
Size / Dimension:	Height - Seated (Max):
0.480" L x 0.480" W (12.20mm x 12.20mm)	0.315" (8.00mm)
Base Product Number:	
49	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.4000	

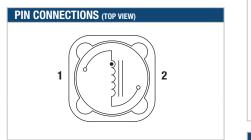




FEATURES
RoHS compliant
■ 1.0µH to 1mH
Up to 11.8A loc
Bobbin format
Surface mount
Integral EMI shield
Compact size
Tape and reel packaging
UL 94V-0 materials
J-STD-020-C reflow

DESCRIPTION

The 4900S series is a range of bobbin-wound, surface-mount inductors designed for use in switching power supply, and power line filter circuits. The parts are suitable for any application requiring a high saturation current in a low-profile package. The devices have an integral ferrite shield to reduce EMI.





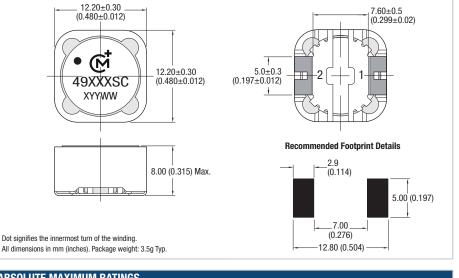
www.murata.com

4900S Series

Shielded Surface Mount Power Inductors

SELECTION GUIDE						
Order Code	Inductance (10kHz, 100mVac) ±20%	DC Current ¹	DC Resistance	SRF	Q Fa	actor
	Nom.	Max.	Max.	Тур.	Ty	/p.
	μH	А	mΩ	MHz	Q	@ f (MHz)
491ROSC	1.0 (±30%)	11.8	5	91	32	1
492R2SC	2.2 (±30%)	9.8	8	48	45	1
493R3SC	3.3 (±30%)	8.4	10	37	42	1
494R7SC	4.7 (±30%)	7.7	12	32	42	1
496R8SC	6.8 (±30%)	6.2	16	24	43	1
49100SC	10	5.1	21	19	43	1
49150SC	15	4.4	27	16	44	1
49220SC	22	3.1	42	12	46	1
49330SC	33	2.9	60	10	51	1
49470SC	47	2.3	100	9	52	1
49680SC	68	2.0	143	7	47	1
49101SC	100	1.6	165	6	40	0.8
49151SC	150	1.3	250	5	35	0.8
49221SC	220	1.1	380	4	36	0.8
49331SC	330	0.90	550	4	33	0.8
49471SC	470	0.75	810	4	37	0.8
49681SC	680	0.62	1200	3	27	0.8
49102SC	1000	0.50	1500	3	26	0.8

MECHANICAL DIMENSIONS



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

SOLDERING INFORMATION ²	
Peak reflow solder temperature	245°C
Pin finish	Tin

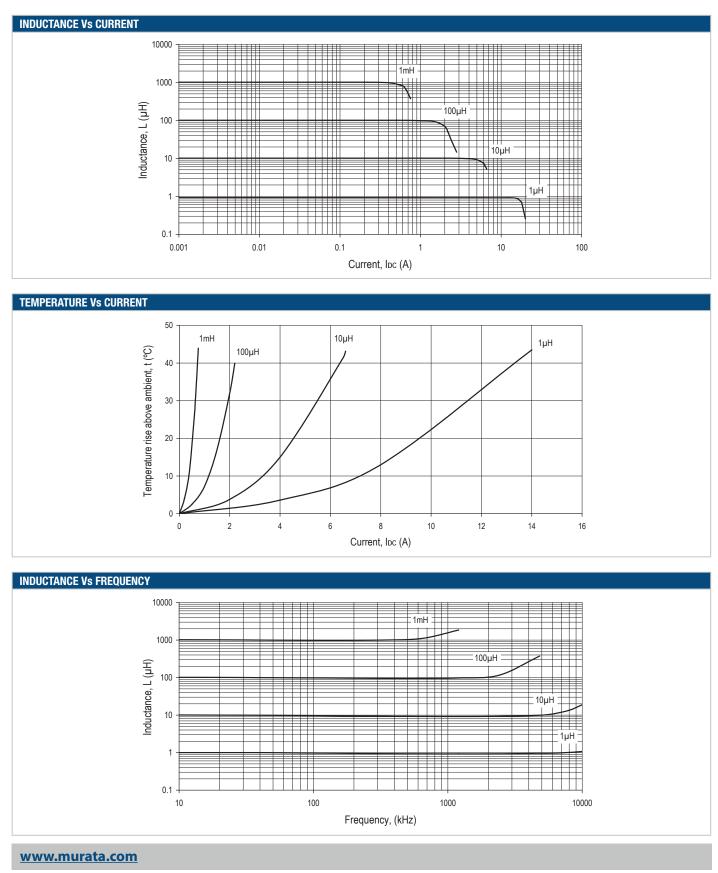
Specifications typical at $T_{a} = 25^{\circ}C$

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

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4900S Series

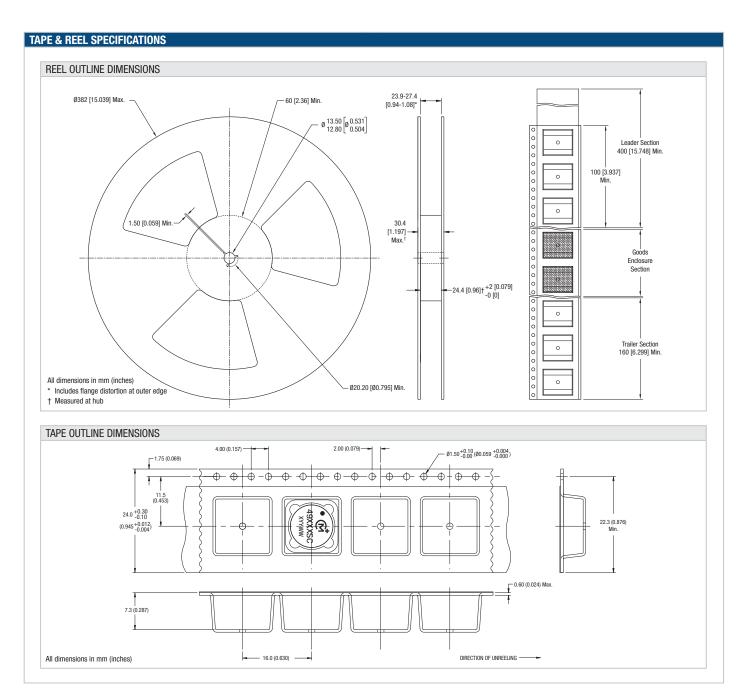
Shielded Surface Mount Power Inductors



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4900S Series

Shielded Surface Mount Power Inductors



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4900S Series

Shielded Surface Mount Power Inductors

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These applications include but are not limited to:

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- 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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This product is subject to the following <u>operating requirements</u> and the <u>Life and Safety Critical Application Sales Policy</u>:

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