

# 1415440C Datasheet



DiGi Electronics Part Number	1415440C-DG
Manufacturer	Murata Power Solutions Inc.
Manufacturer Product Number	1415440C
Description	FIXED IND 150UH 4A 69 MOHM TH
Detailed Description	150 µH Unshielded Wirewound Inductor 4 A 69mOh m Max Radial, Vertical Cylinder

https://www.DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

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### Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
1415440C	Murata Power Solutions Inc.
Series:	Product Status:
1400	Active
Type:	Material - Core:
Wirewound	
Inductance:	Tolerance:
150 μΗ	±10%
Current Rating (Amps):	Current - Saturation (Isat):
4 A	-
Shielding:	DC Resistance (DCR):
Unshielded	69mOhm Max
Q @ Freq:	Frequency - Self Resonant:
24 @ 50kHz	3.4MHz
Ratings:	Operating Temperature:
	-40°C ~ 85°C
Inductance Frequency - Test:	Mounting Type:
1 kHz	Through Hole
Package / Case:	Supplier Device Package:
Radial, Vertical Cylinder	-
Size / Dimension:	Height - Seated (Max):
1.031" Dia (26.20mm)	0.610" (15.50mm)
Base Product Number:	
14	

## **Environmental & Export classification**

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	Not Applicable
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.4000	





FEATURES
RoHS compliant
Radial format
-40°C to 85°C operating temperature
Up to 13A loc
■ 10µH to 22mH
Low DC resistance
Fully tinned leads
PCB mounting hole
Low temperature dependence
Backward compatible with
Sn/Pb soldering systems
Custom parts available

#### DESCRIPTION

The 1400 Series is suitable for many power supply and other general purpose filtering applications. The use of a non-magnetic screw will ensure mechanical stability.



www.murata.com

# 1400 Series

**Bobbin Type Inductors** 

SELECTION	I GUIDE												
Order Code	Inductance, (1kHz, 0.1Vac)	DC Current <sup>1</sup>	DC Resistance	Q at	f kHz	SRF	Med	chanic	cal Di	mens	ions	Foot	print
	±10%	Max.	Max.	No	om.	Nom.	а	b	С	d	Øe	f	Øg
	μH	Α	Ω	Q	f	MHz			mm			m	m
1410313C	10 ±15%	13	0.009	54	50	20.7	27.0	24.4	14.0	1.30	5.5	23.9	2.6
1415312C	15 ±15%	12	0.009	42	50	12.7	27.0	24.4	14.0	1.30	5.5	23.9	2.6
1422311C	22 ±15%	11	0.014	64	100	9.3	27.0	24.4	14.0	1.30	5.5	23.9	2.6
1433393C	33 ±15%	9.3	0.017	27	50	9.1	27.0	24.4	14.0	1.30	5.5	23.9	2.6
1447383C	47 ±15%	8.3	0.019	40	100	6.0	27.0	24.4	18.5	1.30	5.5	23.9	2.6
1447385C	47 ±15%	8.5	0.021	33	100	6.7	26.8	24.4	14.0	1.20	5.5	23.8	2.4
1468362C	68 ±15%	6.2	0.032	32	100	5.3	26.5	24.4	14.0	1.08	5.5	23.7	2.1
1468373C	68 ±15%	7.3	0.025	45	100	5.3	27.0	24.4	18.5	1.30	5.5	23.9	2.6
1410454C	100	5.4	0.046	24	100	4.6	26.4	24.4	14.0	1.02	5.5	23.6	2.0
1410460C	100	6.0	0.033	37	100	3.9	26.8	24.4	18.5	1.20	5.5	23.8	2.4
1410478C	100	7.8	0.040	34	50	3.3	32.4	29.8	21.8	1.30	5.1	29.3	2.6
1415440C	150	4.0	0.069	24	50	3.4	26.2	24.4	14.0	0.90	5.5	23.5	1.8
1415449C	150	4.9	0.055	34	50	2.9	26.4	24.4	18.5	1.02	5.5	23.6	2.0
1415465C	150	6.5	0.042	46	100	2.4	32.2	29.8	21.8	1.20	5.1	29.2	2.4
1422435C	220	3.5	0.096	22	50	2.8	26.1	24.4	14.0	0.85	5.5	23.5	1.7
1422441C	220	4.1	0.073	33	100	2.3	26.3	24.4	18.5	0.97	5.5	23.6	1.9
1422455C	220	5.5	0.062	30	50	2.2	32.1	29.8	21.8	1.14	5.1	29.1	2.2
1430430C	300	3.0	0.140	26	50	2.6	25.9	24.4	14.0	0.75	5.5	23.4	1.5
1430433C	300	3.3	0.100	37	50	2.2	26.2	24.4	18.5	0.90	5.5	23.5	1.8
1430450C	300	5.0	0.080	28	50	1.7	31.8	29.8	21.8	1.02	5.1	29.0	2.0
1433428C	330	2.8	0.150	22	50	2.5	25.9	24.4	14.0	0.76	5.5	23.4	1.5
1433433C	330	3.3	0.120	29	50	2.0	26.2	24.4	18.5	0.90	5.5	23.5	1.8
1433445C	330	4.5	0.091	25	50	1.6	31.8	29.8	21.8	1.02	5.1	29.0	2.0
1447423C	470	2.3	0.250	34	50	2.0	25.7	24.4	14.0	0.67	5.5	23.3	1.3
1447427C	470	2.7	0.160	25	50	1.6	26.1	24.4	18.5	0.85	5.5	23.5	1.7
1447440C	470	4.0	0.125	24	50	1.4	31.7	29.8	21.8	0.97	5.1	29.0	1.9
1468420C	680	2.0	0.300	23	50	1.6	25.7	24.4	14.0	0.67	5.5	23.3	1.3
1468422C	680	2.2	0.226	28	50	1.3	25.9	24.4	18.5	0.75	5.5	23.4	1.5
1468431C	680	3.1	0.173	60	10	1.0	31.6	29.8	21.8	0.90	5.1	28.9	1.8
1410516C	1.0mH	1.6	0.460	30	50	1.4	25.6	24.4	14.0	0.60	5.5	23.2	1.2
1410517C	1.0mH	1.7	0.336	35	50	1.2	25.7	24.4	18.5	0.67	5.5	23.3	1.3
14105240	1.0mH	2.4	0.277	33	50	1.0	31.4	29.8	21.8	0.79	5.1	28.8	1.5
14155130	1.5MH	1.3	0.680	34	50	1.0	25.5	24.4	14.0	0.54	5.5	23.1	1.0
14155140	1.5MH	1.4	0.550	47	50	0.8	25.6	24.4	18.5	0.60	5.5	23.2	1.2
14155176	1.5mH	1.7	0.374	28	50	0.7	31.3	29.8	21.8	0.75	5.1	28.8	1.5
14220090	2.2IIIII 2.2mU	0.9	0.700	40	50	0.9	20.0	24.4	14.0	0.40	5.5	23.1	1.9
14220120	2.∠III∏ 2.2m⊔	1.2	0.700	33	50	0.7	20.0	24.4	10.0	0.00	0.0 5 1	23.2	1.2
1/225070	2.21111 2.2m4	0.7	1 / 20	15	50	0.0	25.0	29.0	21.0	0.07	5.1	20.1	0.0
14333070	3.3111 3.3mH	1.0	1.420	40 20	50	0.0	25.2	24.4	14.0	0.43	5.5	23.0	1.0
14333100	3.3111 3.3mH	1.0	0.030	20	50	0.7	20.0	24.4	21.9	0.04	5.0	23.1	1.0
14475060	4.7mH	0.6	2 200	60	50	0.0	25.2	23.0 24 A	10	0.00	5.1	20.0	0.7
14475080	4.7mH	0.0	1 600	65	50	0.0	25.2	24.4	18.5	0.09	5.5	23.0	0.7
14475000	4.7mH	0.0 N Q	1 400	57	10	0.5	30.0	20 g	21.8	0.50	5.5	28.5	1 0
14685050	6.8mH	0.5	2 880	50	50	0.5	25.2	20.0	14 0	0.04	5.5	20.0	0.7
14685070	6.8mH	0.0	2,300	47	50	0.5	25.2	24 4	18 5	0.00	5.5	23.0	0.7
14685080	6.8mH	0.7	2.000	30	50	0.4	30.7	29.8	21.8	0.48	5.1	28.5	0.0
14106040	10mH	0.0	4 340	51	50	0.4	25.1	24.0	14 0	0.40	5.5	20.0	0.9
14106050	10mH	0.5	3 600	48	50	0.7	25.2	24.4	18 5	0.30	5.5	23.0	0.0
14106060	10mH	0.0	2 600	48	50	0.0	30.0	29.9 29.8	21.8	0.53	5.1	28.5	10
14156040	15mH	0.0	5 500	61	10	0.2	25.1	24 4	18 5	0.34	5.5	22.0	0.6
14156050	15mH	0.5	3 740	55	10	0.2	30.6	29.8	21 8	0 43	5.1	28 4	0.0
14226040	22mH	0.0	6.962	30	50	0.2	30.5	29.8	21.0	0.34	5.1	28.3	0.0
. 1220040		U.T	0.002	00	00	0.2	00.0	-0.0		0.04	0.1	20.0	0.0

1 Maximum DC current occurs when either the inductance falls to 60% of its nominal value or when its temperature rise reaches 50°C, whichever is sooner.

# muRata Ps Murata Power Solutions

# **1400 Series**

**Bobbin Type Inductors** 

g ±0.15

15 per carton

25 per carton

SOLDERING INFORMATION <sup>2</sup>	
Peak wave solder temperature	300°C for 10 seconds
Pin finish	Pure tin dip

ABSOLUTE MAXIMUM KATINGS	
Operating free air temperature range	-40°C to 85°C
Storage temperature range	-55°C to 125°C

All specifications typical at  $T_A = 25^{\circ}C$ 

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

#### PACKAGE SPECIFICATIONS



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Unless otherwise stated in the datasheet, all products are designed for standard commercial and industrial applications and NOT for safety-critical and/or life-critical applications.

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- 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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