



FEATURES

- RoHS compliant
- Radial format
- Up to 16.2A I_{dc}
- 1.0μH to 1.0mH
- Low DC resistance
- PCB mounting
- Fully tinned leads
- Compatible with RoHS soldering systems
- Backward compatible with Sn/Pb soldering systems
- Custom parts available

DESCRIPTION

The 1500 Series is a general purpose range of inductors suitable for low to medium current applications such as power supply and other general purpose filtering designs. The central hole allows mechanical fixing with a non-magnetic screw.

SELECTION GUIDE

Order Code	Inductance, (10kHz, 0.1V _{ac})	DC Current ¹	DC Resistance	Q @ f kHz		SRF	Lead Dimensions (See Package Specifications)	
	± 10%	Max.	Max.	Nom.		Nom.	Dim. A	Dim. B
	μH	A	mΩ	Q	f	MHz	mm	mm
To be discontinued								
15102C	1.0 ± 20%	16.2	2.76	151	1000	142	1.18	13.6
15152C	1.5 ± 20%	14.9	3.48	155	1000	108	1.18	13.6
15222C	2.2 ± 20%	15.0	4.20	127	1000	82	1.18	13.6
15332C	3.3 ± 20%	11.8	5.76	128	1000	68	1.18	13.6
15472C	4.7 ± 20%	11.7	6.48	131	1000	60	1.18	13.6
15682C	6.8 ± 20%	10.2	8.04	133	1000	46	1.18	14.0
15103C	10	9.01	10.6	112	1000	30	1.18	14.5
15153C	15	7.44	15.5	109	1000	19	1.06	14.2
15223C	22	6.80	18.8	102	1000	11	1.06	13.6
15333C	33	5.08	31.2	107	1000	8	0.90	13.8
15473C	47	4.04	45.6	104	1000	5	0.80	14.2
15683C	68	3.33	70.3	100	1000	4	0.71	13.6
15104C	100	2.62	110	89	1000	3	0.63	13.8
15154C	150	2.28	149	126	800	2	0.60	13.6
15224C	220	2.08	185	69	20	2	0.60	14.0
15334C	330	1.71	263	68	20	1.6	0.56	13.8
15474C	470	1.40	389	76	20	1.3	0.50	14.2
15684C	680	1.12	574	86	25	1.0	0.45	14.0
15105C	1000	0.91	887	96	30	0.8	0.40	13.6

ABSOLUTE MAXIMUM RATINGS

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

SOLDERING INFORMATION²

Peak wave solder temperature	260°C for 10 seconds
Pin finish	Pure tin dip

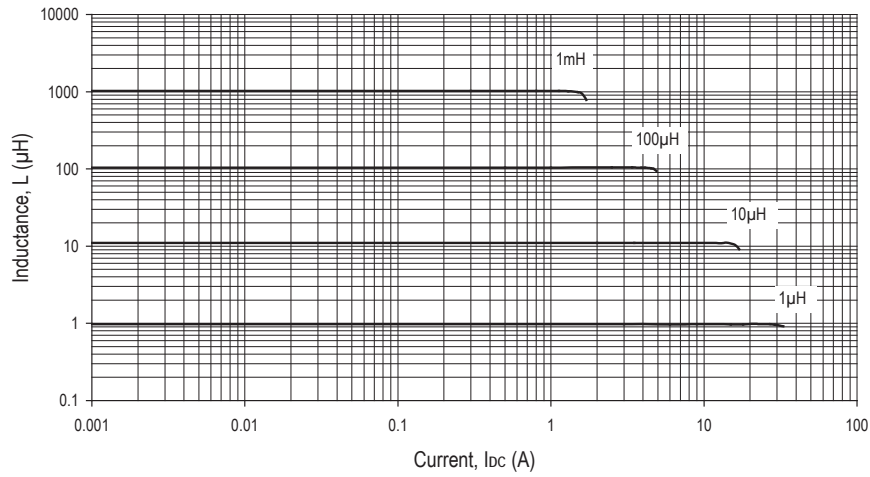


For full details go to
www.murata-ps.com/rohs

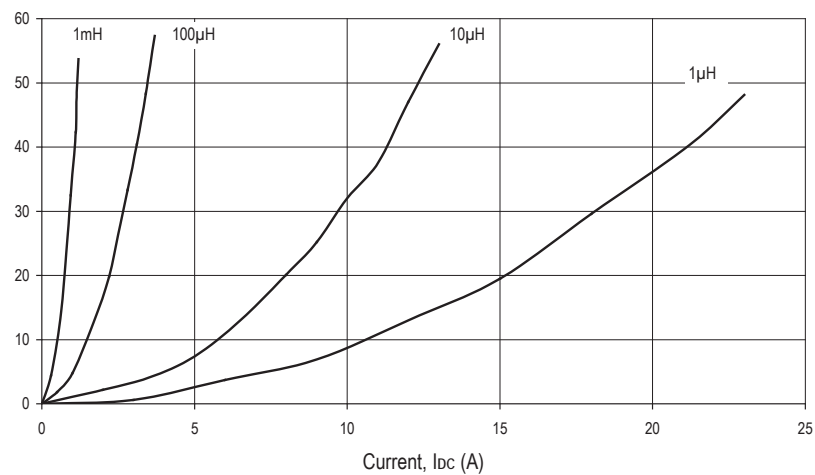
All specifications typical at T_a=25°C

- 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

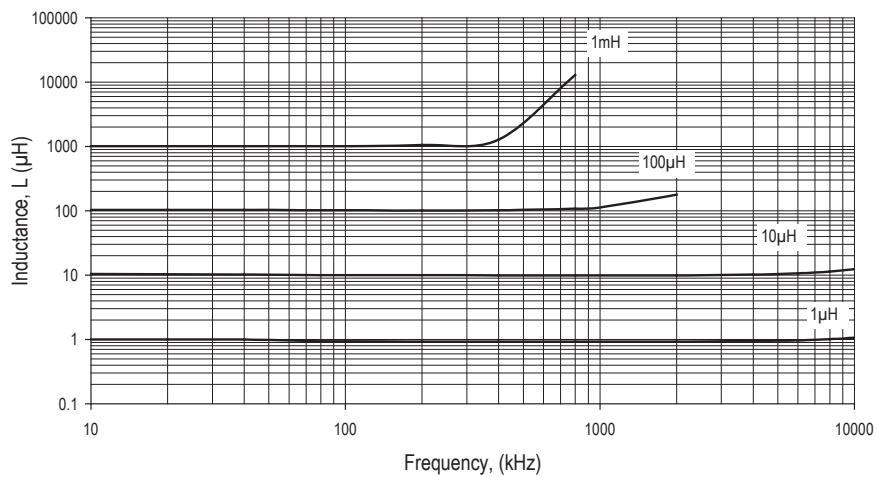
INDUCTANCE Vs CURRENT



TEMPERATURE Vs CURRENT

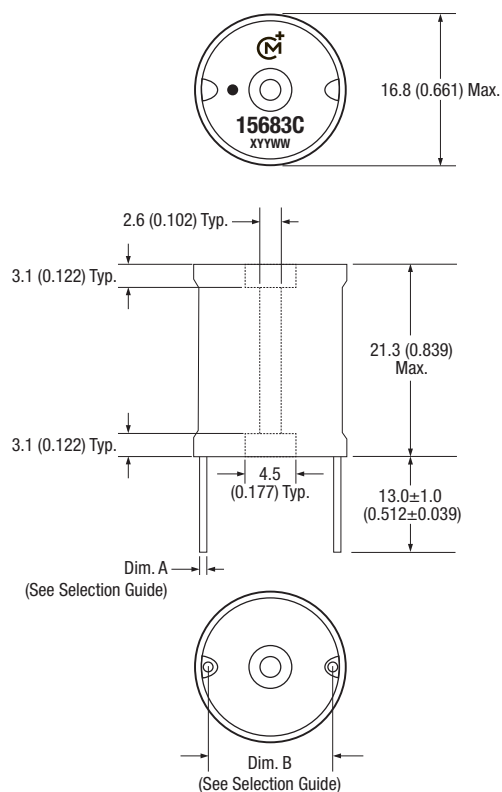


INDUCTANCE Vs FREQUENCY



PACKAGE SPECIFICATIONS

MECHANICAL DIMENSIONS



All dimensions in mm (inches).
Dot signifies the innermost turn of the winding.

Package weight 13-18g Typ.

PACKAGING DETAILS

Supplied in trays (40 pieces per tray)

DISCLAIMER

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.

Particularly for safety-critical and/or life-critical applications, i.e. applications that may directly endanger or cause the loss of life, inflict bodily harm and/or loss or severe damage to equipment/property, and severely harm the environment, a prior explicit written approval from Murata is strictly required. Any use of Murata standard products for any safety-critical, life-critical or any related applications without any prior explicit written approval from Murata shall be deemed unauthorised use.

These applications include but are not limited to:

- 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

Murata makes no express or implied warranty, representation, or guarantee of suitability, fitness for any particular use/purpose and/or compatibility with any application or device of the buyer, nor does Murata assume any liability whatsoever arising out of unauthorised use of any Murata product for the application of the buyer. The suitability, fitness for any particular use/purpose and/or compatibility of Murata product with any application or device of the buyer remain to be the responsibility and liability of the buyer.

Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards that anticipate dangerous consequences of failures, monitor failures and their consequences, lessen the likelihood of failures that might cause harm, and take appropriate remedial actions. Buyer will fully indemnify and hold Murata, its affiliated companies, and its representatives harmless against any damages arising out of unauthorised use of any Murata products in any safety-critical and/or life-critical applications.

Remark: Murata in this section refers to Murata Manufacturing Company and its affiliated companies worldwide including, but not limited to, Murata Power Solutions.



This product is subject to the following [operating requirements](https://www.murata.com/en-eu/products/power/requirements) and the [Life and Safety Critical Application Sales Policy](https://www.murata.com/en-eu/products/power/requirements):

Refer to: <https://www.murata.com/en-eu/products/power/requirements>

Murata Power Solutions (Milton Keynes) Ltd. makes no representation that the use of its products in the circuits described herein, or the use of other technical information contained herein, will not infringe upon existing or future patent rights. The descriptions contained herein do not imply the granting of licenses to make, use, or sell equipment constructed in accordance therewith. Specifications are subject to change without notice.

© 2021 Murata Power Solutions (Milton Keynes) Ltd