



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





FEATURES

- RoHS compliant
- Axial format
- Up to 5.35A I_{DC}
- 4.7μH to 10mH
- Low DC resistance
- Compact size
- MIL-I-23053/5 class III sleeving
- Fully tinned leads
- Supplied in packs of 10
- Custom & radial parts available
- Backward compatible with Sn/Pb soldering systems

DESCRIPTION

The 1800 Series of inductors are particularly suited to use with a wide variety of switching regulators. Offering high current handling with a low mounting height, the devices are ideal where space is at a premium.

SELECTION GUIDE

Order Code	Inductance (1kHz, 0.1V _{AC})	DC Current ¹	DC Resistance	Q @ f kHz		SRF
	±10%	Max.	Max.	Nom.		Nom.
	μH	A	mΩ	Q	f	MHz
18472C	4.7	5.35	9.0	112	1000	36.4
18682C	6.8	4.15	12.0	78	500	23.6
18103C	10.0	3.45	15.0	64	500	19.0
18153C	15.0	3.00	18.0	55	500	15.9
18223C	22.0	2.42	25.0	59	500	11.8
18333C	33.0	2.00	40.0	48	500	11.5
18473C	47.0	1.65	55.0	55	500	8.5
18683C	68.0	1.35	70.0	31	100	6.6
18104C	100.0	1.20	100.0	40	100	7.4
18154C	150.0	1.10	165.0	47	100	4.4
18224C	220.0	0.90	230.0	46	100	3.5
18254C	250.0	0.80	255.0	50	100	3.7
18334C	330.0	0.73	335.0	58	100	3.0
18474C	470.0	0.60	465.0	56	100	2.2
18684C	680.0	0.53	630.0	55	100	2.0
18105C	1.0mH	0.44	1.0Ω	94	50	1.6
18155C	1.5mH	0.33	1.5Ω	107	50	1.3
18225C	2.2mH	0.30	2.2Ω	108	50	1.1
18335C	3.3mH	0.22	3.5Ω	143	50	0.8
18475C	4.7mH	0.20	4.6Ω	128	40	0.7
18685C	6.8mH	0.15	7.0Ω	144	40	0.6
18106C	10.0mH	0.13	12.0Ω	143	40	0.5

TYPICAL CORE/WIRE CHARACTERISTICS

Inductance Temperature Coefficient	Resistance Temperature Coefficient	Curie Temperature (T _c)	Saturation Flux (B _{SAT})
430ppm	4000ppm	190°C	325mT

ABSOLUTE MAXIMUM RATINGS

Operating free air temperature range	0°C to 70°C
Storage temperature range	-55°C to 125°C

SOLDERING INFORMATION²

Peak wave solder temperature	300°C for 10 seconds
Pin finish	Bright tin

All specifications typical at T_a=25°C

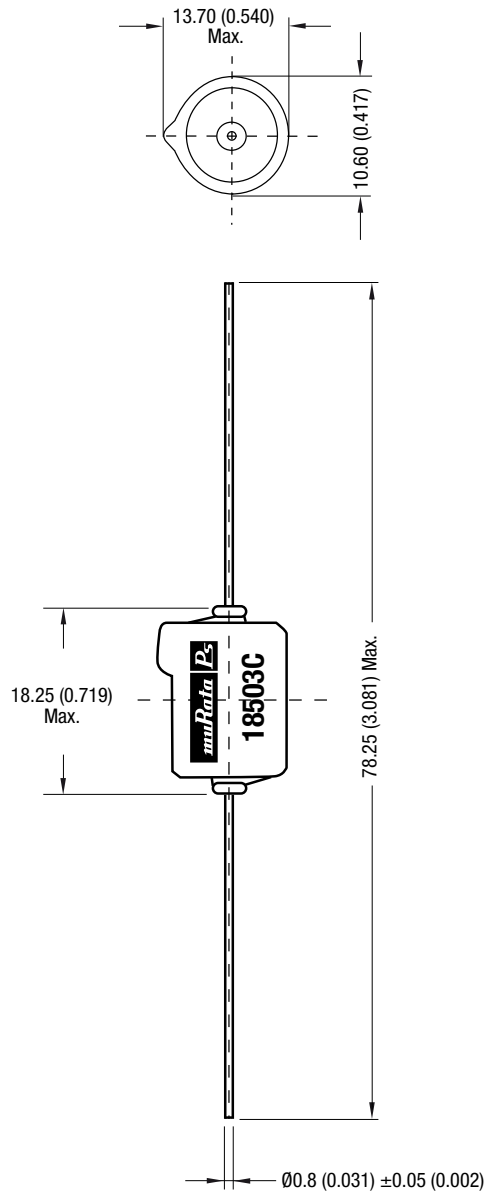
- 1 Maximum DC current occurs when either the inductance falls to 90% of its nominal value or when its temperature rise reaches 30°C, whichever is sooner.
- 2 For further information, please visit www.murata-ps.com/rohs



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

PACKAGE SPECIFICATIONS

MECHANICAL DIMENSIONS



Unless otherwise stated, all dimensions in mm (inches) ± 0.25 (0.01).
 Package weight: 4.6g Typ.
 Package quantity: 10

Murata Power Solutions, Inc.
 11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A.
 ISO 9001 and 14001 REGISTERED

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