



**FEATURES**

- RoHS compliant
- Axial format
- Up to 5.35A I<sub>DC</sub>
- 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

**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 <sub>AC</sub> )	DC Current <sup>1</sup>	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 <sub>c</sub> )	Saturation Flux (B <sub>SAT</sub> )
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

**RoHS COMPLIANCE INFORMATION**



This series is compatible with RoHS soldering systems. A peak wave solder temperature of 300°C for 10 seconds is permitted. The pin termination finish on this product series is bright tin. All types are backward compatible with Sn/Pb soldering systems.

For further information, please visit [www.cd4power.com/rohs](http://www.cd4power.com/rohs)

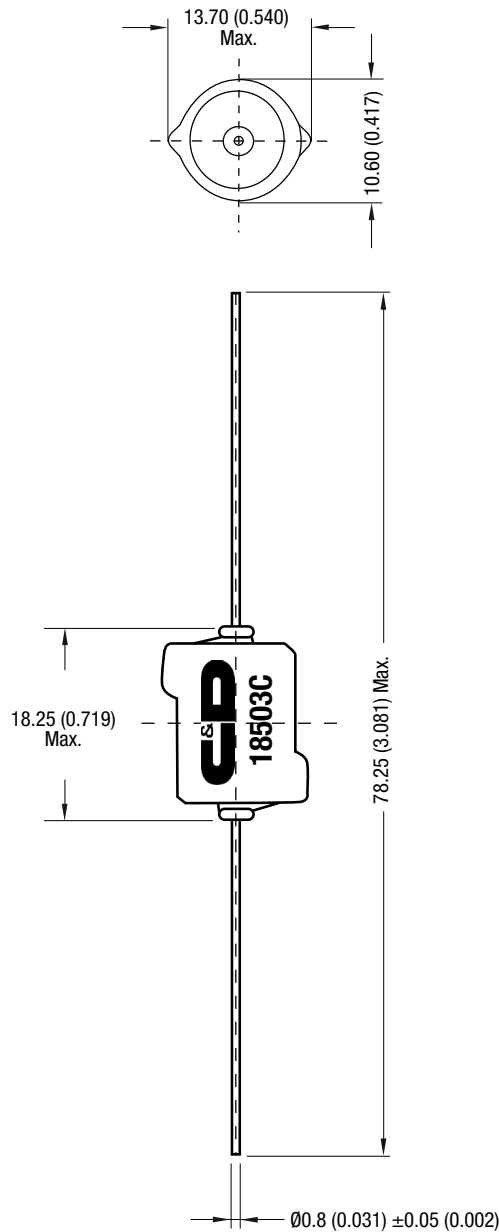
All specifications typical at T<sub>A</sub>=25°C

<sup>1</sup> 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.



**PACKAGE SPECIFICATIONS**

**MECHANICAL DIMENSIONS**



Unless otherwise stated, all dimensions in mm (inches) ±0.25 (0.01).

Package weight: 4.6g Typ.

Package quantity: 10