1800 Series

Axial Lead Inductors

FEATURES
RoHS compliant
Axial format
Up to 5.35A loc
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

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, 0.1Vac)	DC Current ¹	DC Resistance	Q @ f kHz Nom.		SRF	
	±10%	Max.	Max.			Nom.	
	μH	А	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				

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

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

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.

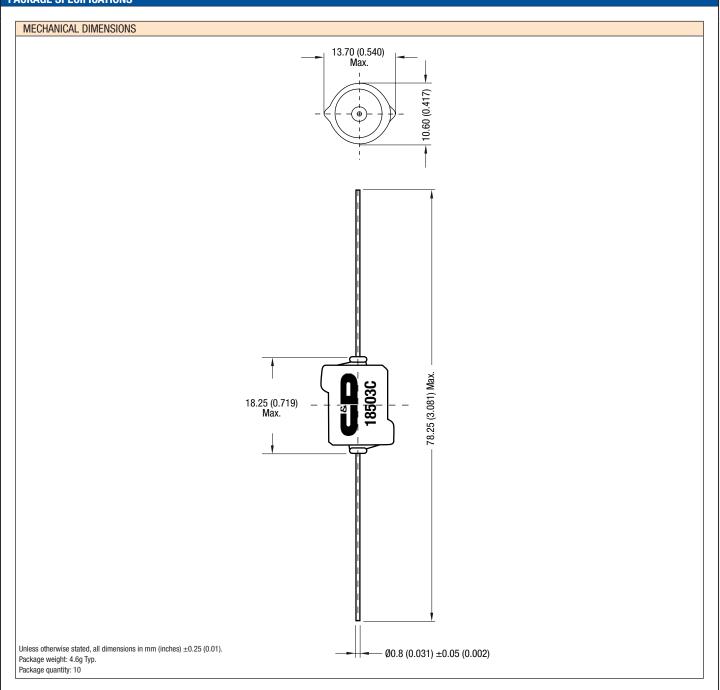




PACKAGE SPECIFICATIONS



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