

**FEATURES**

- Axial Format
- Up to 5.35A IDC
- 4.7 $\mu$ H to 10mH
- Low DC Resistance
- Compact Size
- Fully Tinned Leads
- MIL-I-23053/5 Class III Slewing
- 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 $\pm 10\%$ (at 1kHz) $\mu$ H	DC Resistance m MAX	DC Current Continuous A MAX	Nominal Q at f kHz		Nominal Self Resonant Frequency MHz
				Q	f	
<b>18472</b>	4.7	9	5.35	112	1000	36.4
<b>18682</b>	6.8	12	4.15	78	500	23.6
<b>18103</b>	10	15	3.45	64	500	19.0
<b>18153</b>	15	18	3.00	55	500	15.9
<b>18223</b>	22	25	2.42	59	500	11.8
<b>18333</b>	33	40	2.00	48	500	11.5
<b>18473</b>	47	55	1.65	55	500	8.5
<b>18683</b>	68	70	1.35	31	100	6.6
<b>18104</b>	100	100	1.20	40	100	7.4
<b>18154</b>	150	165	1.10	47	100	4.4
<b>18224</b>	220	230	0.90	46	100	3.5
<b>18254</b>	250	255	0.80	50	100	3.7
<b>18334</b>	330	335	0.73	58	100	3.0
<b>18474</b>	470	465	0.60	56	100	2.2
<b>18684</b>	680	630	0.53	55	100	2.0
<b>18105</b>	1mH	1.0	0.44	94	50	1.6
<b>18155</b>	1.5mH	1.5	0.33	107	50	1.3
<b>18225</b>	2.2mH	2.2	0.30	108	50	1.1
<b>18335</b>	3.3mH	3.5	0.22	143	50	0.8
<b>18475</b>	4.7mH	4.6	0.20	128	40	0.7
<b>18685</b>	6.8mH	7.0	0.15	144	40	0.6
<b>18106</b>	10mH	12	0.13	143	40	0.5

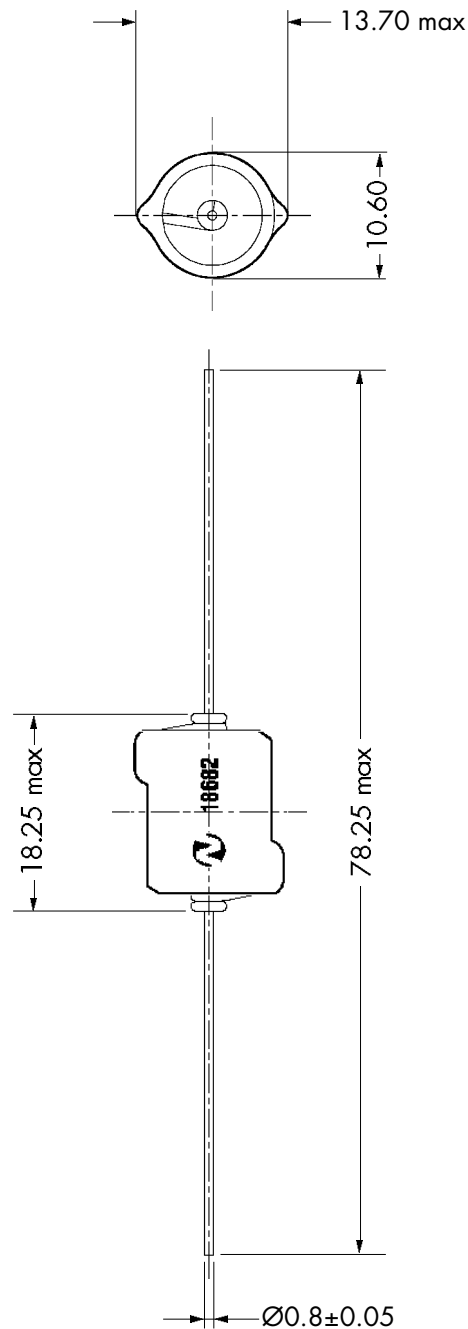
TYPICAL CORE CHARACTERISTICS			
Inductance Temperature Coefficient	Resistance Temperature Coefficient	Curie Temperature $T_C$	Saturation Flux $B_{SAT}$
450ppm	4000ppm	190°C	325mT

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

# 1800 SERIES

Axial Lead Inductors

## MECHANICAL DIMENSIONS



All dimensions in mm  $XX.XX \pm 0.25$

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