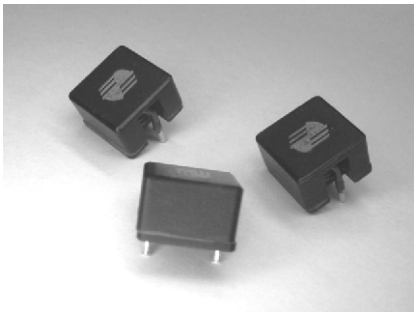
Elec & Eltek依利安達
E & E Magnetic Products Limited

THT POWER INDUCTORS

POWER CUBE INDUCTORS

RIT1180A Series

- Used in high power application
- Large permissible DC current
- Ideal for computers and portable power devices, DC-DC converters, energy storage applications and Input-Output filter applications
- Operating temperature -40 C to +125 C
- RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance @0Adc[2]		Inductance[3] @ Irated (uH Typ)	Irated[4] (A)	DCR (m) Max	Saturation[5] Current Isat (A)	Heating[6] Current Idc (A)	Dia of Pins Ref. (in./mm)	Marking (XXXY)
	(uH)	Tolerances (%)							
RIT1180A-151LF	0.15	±15	0.14	38.7	0.80	50	38.7	.063/1.60	151L
RIT1180A-281LF	0.28	±15	0.25	38.7	0.80	45	38.7	.063/1.60	281L
RIT1180A-351LF	0.35	±15	0.32	25.5	1.85	45	25.5	.051/1.30	351L
RIT1180A-451LF	0.45	±15	0.41	25.5	1.85	35	25.5	.051/1.30	451L
RIT1180A-601LF	0.60	±15	0.54	20.2	2.80	35	20.2	.043/1.10	601L
RIT1180A-801LF	0.80	±15	0.72	20.2	2.80	25	20.2	.043/1.10	801L
RIT1180A-102LF	1.00	±15	0.90	16.5	4.10	20	16.5	.039/1.00	102L
RIT1180A-132LF	1.30	±15	1.17	16.5	4.10	20	16.5	.039/1.00	132L
RIT1180A-152LF	1.50	±15	1.35	15.3	4.80	18	15.3	.039/1.00	152L
RIT1180A-182LF	1.80	±15	1.62	15.3	4.80	18	15.3	.039/1.00	182L
RIT1180A-222LF	2.20	±15	1.98	14.0	5.50	16	14.0	.039/1.00	222L
RIT1180A-252LF	2.50	±15	2.25	14.0	5.50	16	14.0	.039/1.00	252L

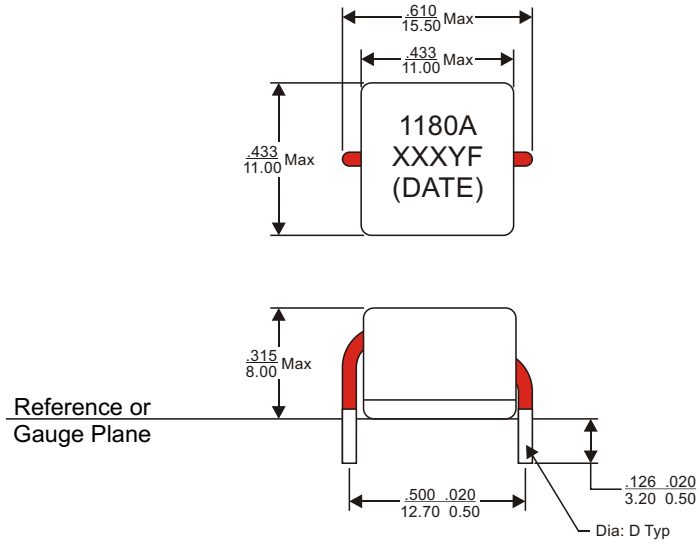
Notes:

1. Ordering Information: RIT1180A - bbbaFc.

   RIT1180A = Product Type.
   a = Tolerance of Inductance (L = ± 15%).
   bbb = Inductance value in uH (i.e. 151 = 0.15uH; 152 = 1.50uH).
   F = Internal Control Code.
   c = Packaging Code (No code = Non Tape & Reel Packaging, i.e. Tray packaging).

2. Inductance is tested at 0.1Vrms, 100kHz @ 0Adc.
3. Inductance at Irated is a typical inductance value for the component taken at rated current.
4. The rated current listed is the lower of the saturation current @ 25°C or the heating current.
5. Saturation current, Isat, indicates the value of DC current when the inductance is 10% (typical) lower than its initial value at an ambient temperature of 25°C.
6. Heating current, Idc, is the current required to raise the component temperature by approximately 40°C. The heating current is determined by mounting the component on a typical PCB and applying current for 30 minutes.
7. Operating temperature range: -40°C to +125°C.
8. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

MECHANICAL DIMENSIONS

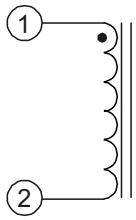


Weight (in gram)	:	4.0 typ.
Tray packaging	:	120pcs / tray

Notes:

9. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
10. Unless otherwise specified, all tolerances are ± $\frac{.010}{0.25}$.

SCHEMATIC



FOR MORE INFORMATION, PLEASE CONTACT

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