




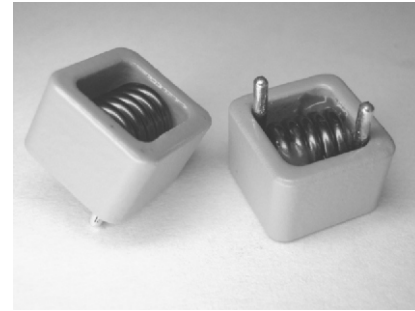


-  Used in high power application
-  Large permissible DC current
-  Ideal for computers and portable power devices, DC-DC converters, energy storage applications and Input-Output filter applications
-  Operating temperature -40 C to +130 C
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

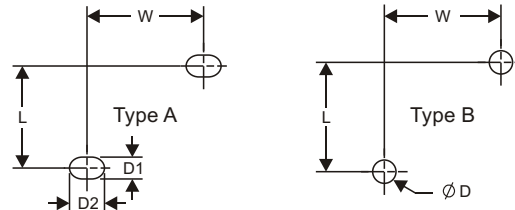
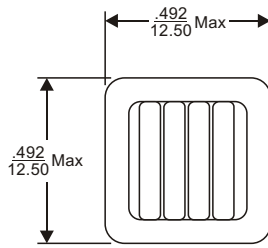
Part Number	Inductance @I _{rated} (H) Typ	I _{rated} ³ (A)	DCR (m 8%)	Inductance ² @0Adc (H 15%)	Saturation ⁴ Current Isat (A)	Heating ⁵ Current Idc(A)	Marking (XXXY)
RIT1295A-281LF	0.25	50	0.47	0.28	50	50	281L
RIT1295A-451LF	0.41	40	0.96	0.45	47	40	451L
RIT1295A-601LF	0.54	40	0.96	0.60	40	40	601L
RIT1295A-801LF	0.72	37	1.25	0.80	37	37	801L
RIT1295A-122LF	1.10	30	1.55	1.20	30	31	122L

Notes:

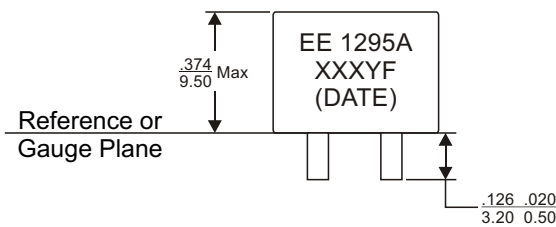
1. Ordering Information: RIT1295A - bbbaFc.
RIT1295A = Product Type.
a = Tolerance of Inductance (L = ±15%).
bbb = Inductance value in uH (i.e. 281 = 0.28uH; 122 = 1.20uH).
F = Internal Control Code.
c = Packaging Code (No code = Non Tape & Reel Packaging, i.e. Tray packaging).
2. Inductance is tested at 100kHz, 0.1Vrms, 0Adc.
3. The rated current listed is the lower of the saturation current at 25°C or the heating current.
4. Saturation current, Isat, is the DC current at which the inductance of the component drops by 10% typical at an ambient temperature of 25 C.
5. 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.
6. 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



Recommended
PAD Layout



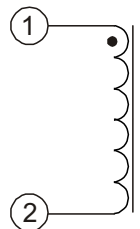
EE Part Number	Layout Type	L $\frac{.039}{1.00}$	W $\frac{.039}{1.00}$	D Max	D1 Max	D2 Max
RIT1295A-281LF	A	.250/6.35	.211/5.35	-	.075/1.90	.114/2.90
RIT1295A-451LF	A	.250/6.35	.236/6.00	-	.059/1.50	.094/2.40
RIT1295A-601LF	A	.250/6.35	.236/6.00	-	.059/1.50	.094/2.40
RIT1295A-801LF	B	.250/6.35	.236/6.00	.063/1.60	-	-
RIT1295A-122LF	B	.250/6.35	.256/6.50	.063/1.60	-	-

Notes:

- 7. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 8. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	:	8.2 typ.
Tray packaging	:	176pcs/tray

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

HEADQUARTER

1/F., Harbour View 1, No.12 Science Park East Avenue,
Phase II, Hong Kong Science Park, Shatin, N.T.
Hong Kong

Tel: (852) 2954 3333 Fax: (852) 2954 3304

Email: eempl@eleceltek.com

Website: <http://www.eleceltek.com> / www.eemagnetic.com

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