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

THT POWER INDUCTORS

POWER CUBE INDUCTORS

RIT1295A 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 +130°C
- RoHS compliant version is available

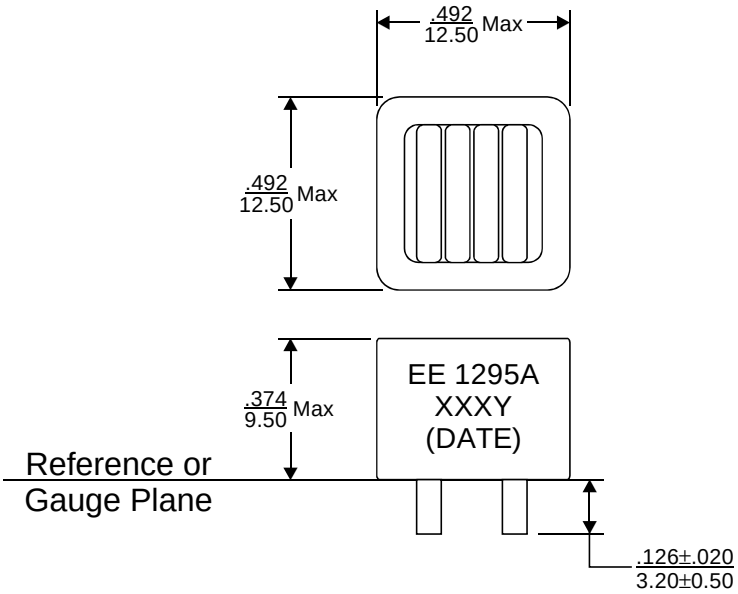
ELECTRICAL SPECIFICATION @ 25°C

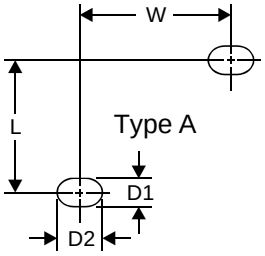
Part Number	RoHS Part Number	Inductance @Irated (µH) Typ	Irated[2] (A)	DCR (mΩ ±8%)	Inductance[1] @0Adc (µH±15%)	Saturation[3] Current Isat (A)	Heating[4] Current IDC(A)	Marking (XXXY)
RIT1295A-281L	RIT1295A-281LF	0.25	50	0.47	0.28	50	50	281L
RIT1295A-451L	RIT1295A-451LF	0.41	40	0.96	0.45	47	40	451L
RIT1295A-601L	RIT1295A-601LF	0.54	40	0.96	0.60	40	40	601L
RIT1295A-801L	RIT1295A-801LF	0.72	37	1.25	0.80	37	37	801L
RIT1295A-122L	RIT1295A-122LF	1.10	30	1.55	1.20	30	31	122L

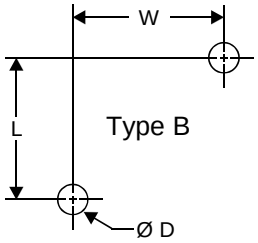
Notes:

1. Inductance is tested at 100kHz, 0.1Vrms, 0Adc.
2. The rated current listed is the lower of the saturation current at 25°C or the heating current.
3. 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.
4. 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.
5. 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

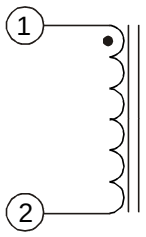
EE Part Number	Layout Type	L ± .039/1.00	W ± .039/1.00	D Max	D1 Max	D2 Max
RIT1295A-281L	A	.250/6.35	.211/5.35	-	.075/1.90	.114/2.90
RIT1295A-451L	A	.250/6.35	.236/6.00	-	.059/1.50	.094/2.40
RIT1295A-601L	A	.250/6.35	.236/6.00	-	.059/1.50	.094/2.40
RIT1295A-801L	B	.250/6.35	.236/6.00	.063/1.60	-	-
RIT1295A-122L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

Notes:

6. All dimensions are specified in inches/mm with higher precedence in mm.
7. Unless otherwise specified, all tolerances are ±.010/0.25.
8. For available RoHS part number, the part will be marked with “XXXYF”, instead of “XXXY”.

Weight (in gram)	:	8.2 typ.
Quantity per Tray	:	176

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

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