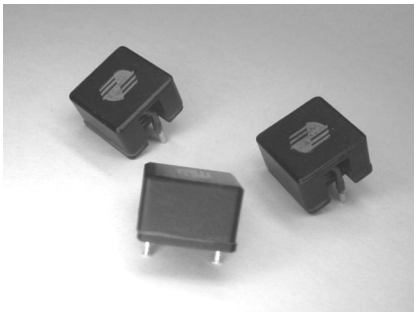
Elec & Eltek依利安達
E & E Magnetic Products Limited

THT POWER INDUCTORS

POWER CUBE INDUCTORS

RIT1392A 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 version is available



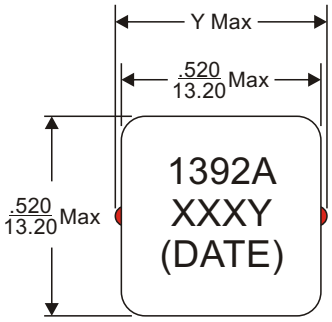
ELECTRICAL SPECIFICATION @ 25°C

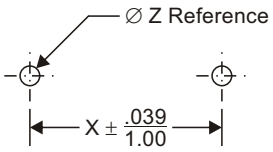
Part Number	RoHS Part Number	Inductance @Irated (μH) Typ	Irated [2] (A)	DCR (mΩ) Typ	DCR (mΩ) Max	Inductance [1] @0Adc (μH±20%)	Saturation [3] Current Isat (A)	Heating [4] Current IDC(A)	Marking (XXXY)
RIT1392A-221M	RIT1392A-221MF	0.21	45	0.45	0.60	0.22	60	45	221M
RIT1392A-351M	RIT1392A-351MF	0.32	45	0.45	0.60	0.35	55	45	351M
RIT1392A-451M	RIT1392A-451MF	0.43	29	1.10	1.45	0.45	50	29	451M
RIT1392A-601M	RIT1392A-601MF	0.57	29	1.10	1.45	0.60	45	29	601M
RIT1392A-801M	RIT1392A-801MF	0.76	23	2.10	2.40	0.80	44	23	801M
RIT1392A-102M	RIT1392A-102MF	0.88	23	2.10	2.40	1.00	35	23	102M
RIT1392A-132M	RIT1392A-132MF	1.23	19	2.55	3.00	1.30	34	19	132M
RIT1392A-152M	RIT1392A-152MF	1.42	19	2.55	3.00	1.50	25	19	152M
RIT1392A-182M	RIT1392A-182MF	1.60	19	2.55	3.00	1.80	20	19	182M

Notes:

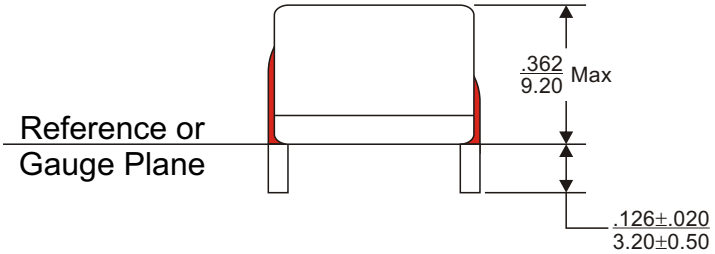
1. Inductance is tested at 100kHz, 0.1Vrms, 0Adc.
2. The rated current listed is the lower of the saturation current at 25°C or the heating current.
3. Saturation current, Isat, is the DC current at which the inductance of the component drops by 15% typical at an ambient temperature of 25°C.
4. Heating 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



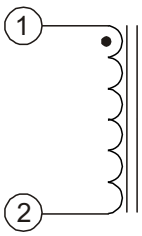
E&E Part Number	X (in./mm)	Y (in./mm)	Z (in./mm)
RIT1392A-221M	.492/12.50	.630/16.00	.087/2.20
RIT1392A-351M	.492/12.50	.630/16.00	.087/2.20
RIT1392A-451M	.500/12.70	.618/15.70	.063/1.60
RIT1392A-601M	.500/12.70	.618/15.70	.063/1.60
RIT1392A-801M	.394/10.00	.512/13.00	.051/1.30
RIT1392A-102M	.394/10.00	.512/13.00	.051/1.30
RIT1392A-132M	.433/11.00	.551/14.00	.051/1.30
RIT1392A-152M	.433/11.00	.551/14.00	.051/1.30
RIT1392A-182M	.433/11.00	.551/14.00	.051/1.30

Notes:

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

Weight (in gram)	:	7.2 typ.
Quantity per Tray	:	130

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

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