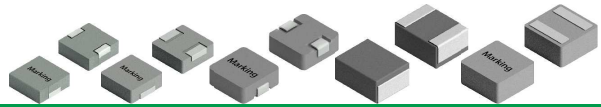


MOLDING POWER INDUCTORS HIGH CURRENT INDUCTORS -EPIT05030A SERIES



●FEATURE

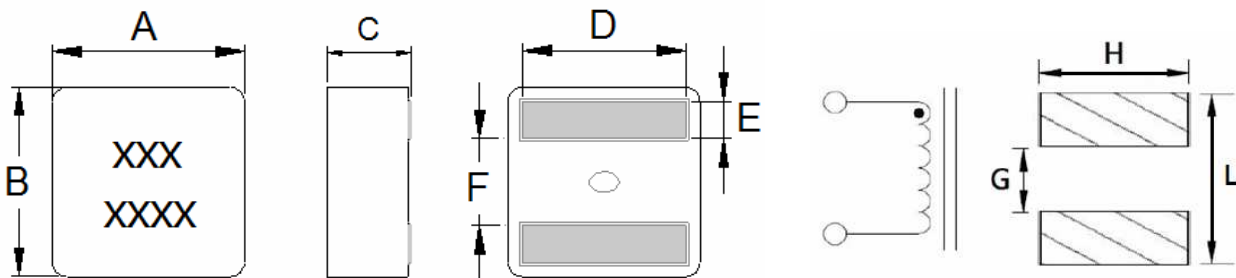
1. Shielded construction, very Low DCR and high current
2. Iron powder and ferrite composite
3. Cross out Coilcraft XAL5030 series

●Applications

1. Server, high current power supplies, DC/DC converters
2. Equipment used for automotive

●Shape and Dimension

●Schematics and Land Patterns(mm)



A=5.50±0.20mm ; B=5.30±0.20mm ; C=2.90±0.20mm ; D=4.30±0.30mm ;
E=1.10±0.20mm ; F=2.30±0.30mm ; G=2.0mm ref. ; H=4.70mm ref. ; L=4.50mm ref.

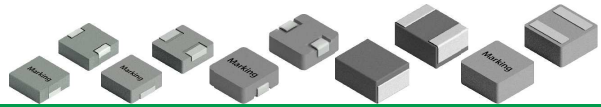
●Specification

P/N	L	RDC		Isat(A) typ.		Irms(A) typ.	
	(μH)	(mΩ) Typ	(mΩ) Max	Typ.	Max.	ΔT: 20°C	ΔT: 40°C
EPIT05030A-R15M	0.15±20%	2.10	2.31	36.0	32.5	14.3	22.2
EPIT05030A-R33M	0.33±20%	3.20	3.52	28.0	26.0	13.8	19.2
EPIT05030A-R47M	0.47±20%	3.75	4.13	26.0	24.0	13.7	18.4
EPIT05030A-R56M	0.56±20%	4.05	4.52	22.2	20.2	13.6	17.7
EPIT05030A-R80M	0.80±20%	5.14	5.65	20.0	18.0	10.1	13.1
EPIT05030A-1R0M	1.0±20%	6.90	7.60	16.5	14.3	9.0	12.2
EPIT05030A-1R2M	1.2±20%	8.80	9.70	15.0	13.5	8.5	11.0
EPIT05030A-1R5M	1.5±20%	10.1	11.2	14.0	12.5	8.0	10.5
EPIT05030A-1R8M	1.8±20%	11.5	12.7	12.3	11.3	7.6	10.1
EPIT05030A-2R2M	2.2±20%	13.2	14.5	10.0	9.0	7.2	9.7
EPIT05030A-3R3M	3.3±20%	21.0	23.1	9.5	8.7	5.9	8.1
EPIT05030A-4R7M	4.7±20%	33.0	36.3	8.2	7.0	4.3	5.9

Note1. Measurement frequency of Inductance value : at 100KHz, 0.1V

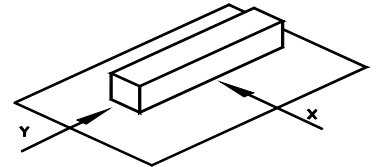
Note2. Measurement ambient temperature of L, DCR and IDC : at 25°C

Note3. Packaging: Taping ; Quantity: 2000 Piece/reel

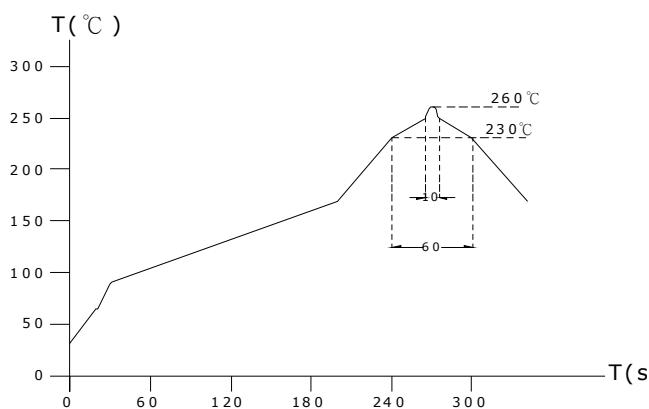


GENERAL CHARACTERISTICS

1. Operating temperature range: -40°C TO $+125^{\circ}\text{C}$ (Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at below conditions.
Terminal should not peel off. (refer to figure at right) 5N. 0N 60 sec.
4. Insulating resistance: Over $100\text{M}\Omega$ at 100V D.C. between coil and core.
5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
6. Temperature characteristics: Inductance coefficient $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$ ($-25\sim +80^{\circ}\text{C}$ degree Celsius), inductance deviation within $\pm 5.0\%$, after 96 hours.
7. Humidity characteristics(Moisture Resistance): Inductance deviation within $\pm 5\%$, after 96 hours in $90\sim 95\%$ relative humidity at $40 \pm 2^{\circ}\text{C}$ and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within $\pm 5\%$, after vibration for 1 hour. In each of three orientations at sweep vibration ($10\sim 55\sim 10\text{ Hz}$) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within $\pm 5\%$, after being dropped once with 981m/s^2 (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
10. Resistance to Soldering Heat: 260°C , 10 seconds(See attached recommend reflow)
11. Storage condition: Temperature Range: $0^{\circ}\text{C} \sim 35^{\circ}\text{C}$; $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (after PCB) , Humidity Range: $50\% \sim 70\% \text{ RH}$
12. Use components within 12 months. If 12 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:



Lead-free heat endurance test



Lead-free the recommended reflow condition

