

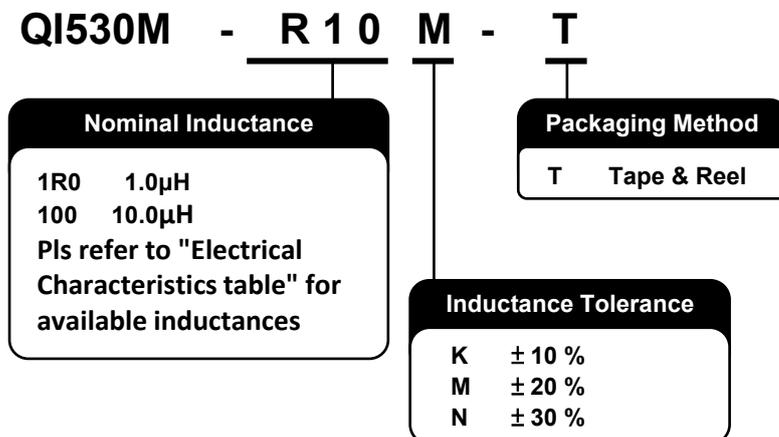
Features

- High performance (Isat) realized by metal bust core
- Shielded construction
- Ultra Low buzz noise, due to composite construction
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI)
- External dimensions (L x W x H) : 5.4 x 5.2 x 3.0 mm
- RoHS compliant
- Operating temperature range -40°C~+125°C (Including self-heating)

Applications

- LED Lighting
- Flat-screen TVs, blue-ray disc recorders, set top box, movie cameras, smart phone
- Notebooks, desktop computers, servers, graphic cards
- Portable gaming devices, personal navigation systems, personal multimedia devices
- Telecomm base stations
- VRM for server

Ordering Information



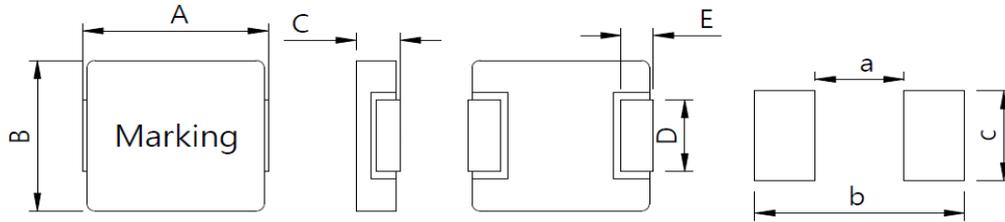
Electrical Characteristics

P/N	Inductance (μ H)	Test Freq. (KHz/1V)	Tolerance (+/- %)	DCR (m Ω) Max.	Isat (A) Typ.	Idc (A) Typ.
QI530M-R22M-T	0.22	100	20	4.5	17.0	14.5
QI530M-R47M-T	0.47	100	20	8.5	15.0	11.0
QI530M-R68M-T	0.68	100	20	12.0	13.0	9.6
QI530M-1R0M-T	1.0	100	20	14.0	11.0	8.6
QI530M-1R2M-T	1.2	100	20	16.0	11.0	8.0
QI530M-1R5M-T	1.5	100	20	25.0	8.5	6.6
QI530M-2R2M-T	2.2	100	20	29.0	7.5	6.0
QI530M-3R3M-T	3.3	100	20	38.0	6.0	5.3
QI530M-4R7M-T	4.7	100	20	60.0	5.0	4.2
QI530M-6R8M-T	6.8	100	20	90.0	4.0	3.4
QI530M-100M-T	10.0	100	20	125.0	3.5	2.9

Note :

- Testing frequency : 100KHz/1V
- All test Data is referenced to 20°C ambient.
- Typical Heat Rating DC Current (Idc) would cause an approximately Δ T of 40°C, base on IEC62024-2 by PCB class-C.
- Typical Saturation DC Current (Isat) would cause Lo to drop approximately 30%.

Shape And Dimensions



SUGGESTED PCB LAYOUT

A	B	C	D	E	a (Typ.)	b (Typ.)	c (Typ.)
5.4±0.3	5.2±0.2	3.0 Max	2.2±0.5	1.2±0.5	3.0	7.0	2.5

(Unit: mm)

Packing Specification

pcs / reel	Reel size	Inner box (400*350*140mm)	Carton outside (430*380*320mm)
2K	13	12K	24K