

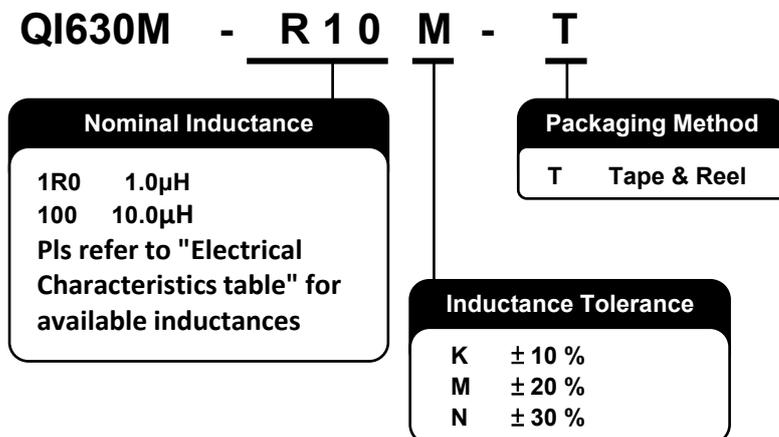
Features

- 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) : 7.1 x 6.6 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



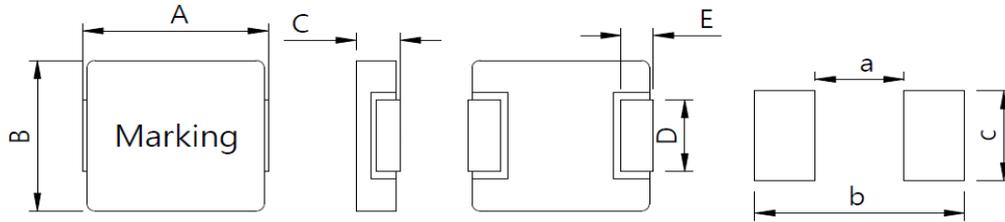
Electrical Characteristics

P/N	Inductance (μH)	Test Freq. (KHz/1V)	Tolerance (+/- %)	DCR (mΩ) Max.	Isat (A) Typ.	Idc (A) Typ.
QI630M-R22M-T	0.22	100	20	2.8	40.0	19.0
QI630M-R24M-T	0.24	100	20	1.5	32.0	27.5
QI630M-R33M-T	0.33	100	20	3.5	25.0	18.0
QI630M-R47M-T	0.47	100	20	4.1	20.0	16.0
QI630M-R56M-T	0.56	100	20	4.5	18.0	15.0
QI630M-R68M-T	0.68	100	20	5.3	17.0	14.0
QI630M-R82M-T	0.82	100	20	6.0	16.0	13.0
QI630M-1R0M-T	1.0	100	20	7.4	15.0	11.5
QI630M-1R5M-T	1.5	100	20	12.1	14.0	9.0
QI630M-2R2M-T	2.2	100	20	15.0	12.0	8.0
QI630M-3R3M-T	3.3	100	20	22.0	9.5	7.5
QI630M-4R7M-T	4.7	100	20	33.0	9.0	5.5
QI630M-6R8M-T	6.8	100	20	48.0	6.0	4.5
QI630M-8R2M-T	8.2	100	20	60.0	6.0	4.0
QI630M-100M-T	10.0	100	20	68.0	5.5	3.8
QI630M-150M-T	15.0	100	20	115.0	4.5	2.8
QI630M-220M-T	22.0	100	20	200.0	3.0	2.2
QI630M-330M-T	33.0	100	20	270.0	3.0	2.0

Note :

- Testing frequency : 100KHz/1V
- All test Data is referenced to 20°C ambient.
- Typical Heat Rating DC Current (Idc) would cause an approximately ΔT 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.)
7.1±0.3	6.6±0.2	3.0 Max.	3.0±0.5	1.6±0.5	3.7	8.4	3.5

(Unit: mm)

Packing Specification

pcs / reel	Reel size	Inner box (400*350*140mm)	Carton outside (430*380*320mm)
1.5K	13	9.0K	18K