

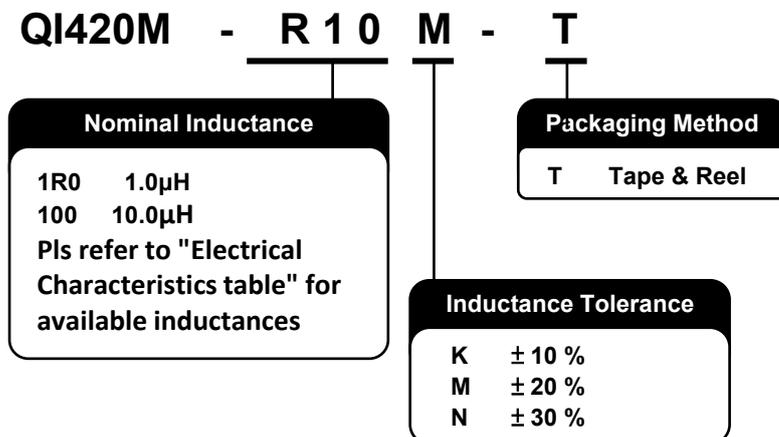
Features

- 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) : 4.4 x 4.2 x 2.0 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



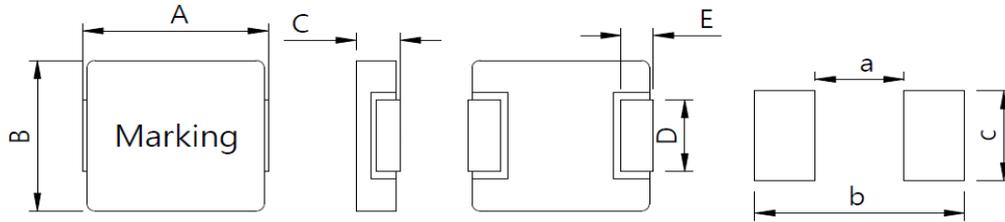
Electrical Characteristics

P/N	Inductance (μH)	Test Freq. (KHz/1V)	Tolerance (+/- %)	DCR (mΩ) Max.	Isat (A) Typ.	Idc (A) Typ.
QI420M-R10M-T	0.1	100	20	4.0	22.0	13.0
QI420M-R22M-T	0.22	100	20	6.6	12.5	9.0
QI420M-R33M-T	0.33	100	20	11.0	12.0	8.0
QI420M-R47M-T	0.47	100	20	14.0	9.5	7.0
QI420M-R56M-T	0.56	100	20	16.0	9.0	6.2
QI420M-R68M-T	0.68	100	20	18.0	9.0	6.0
QI420M-1R0M-T	1.0	100	20	27.0	7.0	4.8
QI420M-1R2M-T	1.2	100	20	27.0	7.0	4.8
QI420M-1R5M-T	1.5	100	20	46.0	6.0	3.5
QI420M-2R2M-T	2.2	100	20	58.0	5.0	3.2
QI420M-3R3M-T	3.3	100	20	87.0	4.0	2.6
QI420M-4R7M-T	4.7	100	20	105.0	3.0	2.4
QI420M-6R8M-T	6.8	100	20	135.0	2.5	2.1
QI420M-100M-T	10.0	100	20	258.0	2.0	1.5

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.)
4.4±0.4	4.2±0.3	2.0 Max.	2.0±0.3	0.8±0.3	2.2	5.2	2.5

(Unit: mm)

Packing Specification

pcs / reel	Reel size	Inner box (400*350*140mm)	Carton outside (430*380*320mm)
3K	13	18K	36K