

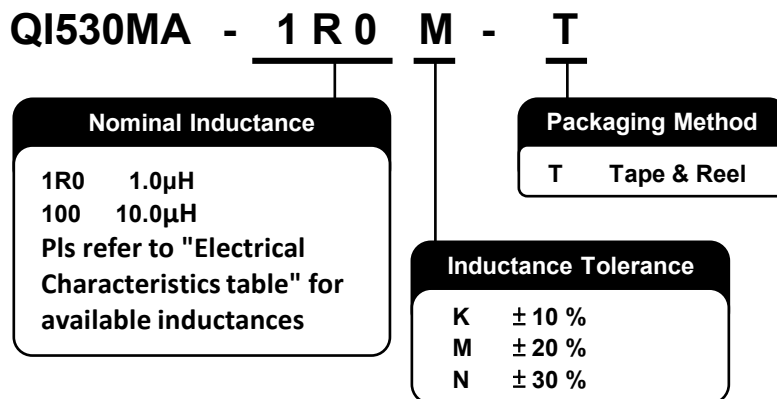
Features

- High performance (Isat) realized by metal bust core.
- Shielded construction.
- Handles high transient current spikes without saturation.
- Ultra Low buzz noise, due to composite construction.
- New technology hot-pressing.
- Ultra-high current, untra-low loss.
- External dimensions (L x W x H) : 5.4 x 5.2 x 3.0 mm
- RoHS compliant.
- AEC-Q200 qualified.
- Operating temperature range -55°C~+125°C.

Applications

- Automotive applications
- High current POL converter
- Battery powered devices
- DC/DC converters in distributed power systems

Ordering Information



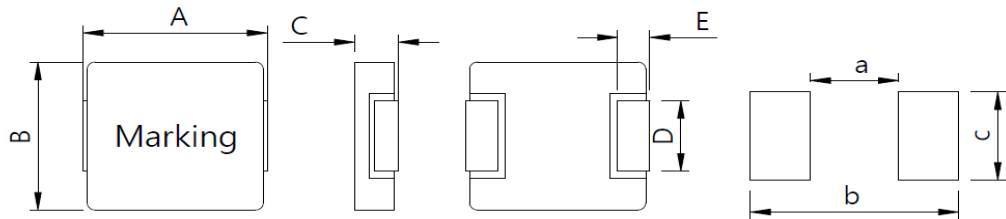
Electrical Characteristics

P/N	Inductance (μ H)	Test Freq. (KHz/1.0V)	Tolerance ($\pm$ %)	DCR (m Ω) Max.	Isat (A)Typ.	Irms (A) Typ.
QI530MA-R10M-T	0.10	100	20	3.5	30	20
QI530MA-R22M-T	0.22	100	20	4.5	17	14.5
QI530MA-R33M-T	0.33	100	20	5.5	17	13.5
QI530MA-R47M-T	0.47	100	20	8.5	15	11
QI530MA-R68M-T	0.68	100	20	12	13	9.6
QI530MA-1R0M-T	1.0	100	20	14	11	8.5
QI530MA-1R2M-T	1.2	100	20	16	11	8.0
QI530MA-1R5M-T	1.5	100	20	25	8.5	6.6
QI530MA-2R2M-T	2.2	100	20	29	7.5	6.0
QI530MA-3R3M-T	3.3	100	20	38	6.0	5.3
QI530MA-4R7M-T	4.7	100	20	60	5.0	4.2
QI530MA-6R8M-T	6.8	100	20	90	4.0	3.4
QI530MA-100M-T	10	100	20	125	3.5	2.9

Note :

- All test data is referenced to 25°C ambient.
- Isat: DC current at which the inductance drops approximate 30%TYP from its value without current.
- Irms: DC current that causes the temperature rise ($\Delta T=40^{\circ}\text{C}$) from 25°C ambient.
- L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3260B bias current source or equivalent.
- DCR tested by Milli-ohmmeter.
- Absolute maximum voltage 30VDC.

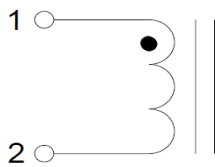
Shape And Dimensions



SUGGESTED PCB LAYOUT

A	B	C	D	E	a (Typ.)	b (Typ.)	c (Typ.)
5.4±0.3	5.2±0.2	3 Max.	2.2±0.5	1.2±0.5	2.2	6	2.7

(Unit: mm)



SCHEMATIC DRAWING

Packing Specification

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