

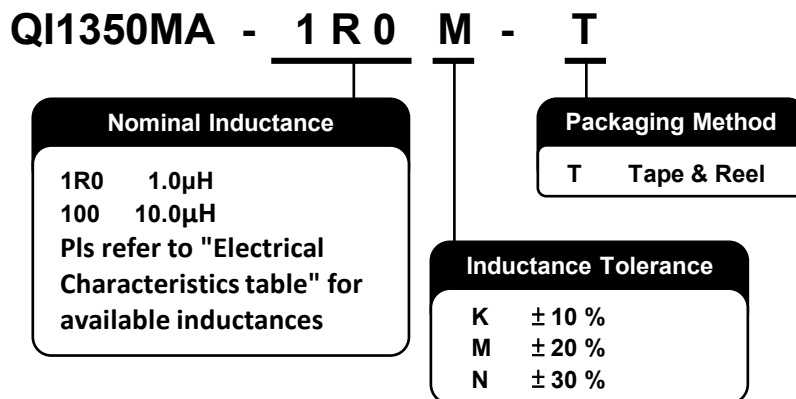
Features

- 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) : 13.45 x 12.6 x 5.0 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



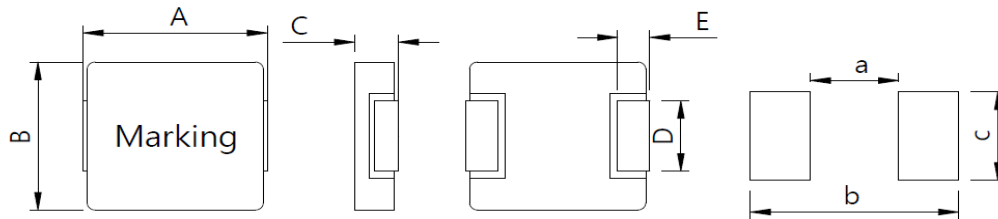
Electrical Characteristics

P/N	Inductance (μ H)	Test Freq. (KHz/1.0V)	Tolerance ($\pm$ %)	DCR (m Ω) Max.	Isat (A)Typ.	Irms (A) Typ.
QI1350MA-R22M-T	0.22	100	20	0.7	75	48
QI1350MA-R33M-T	0.33	100	20	1.2	50	42
QI1350MA-R47M-T	0.47	100	20	1.3	45	35
QI1350MA-R56M-T	0.56	100	20	1.6	42	33
QI1350MA-R68M-T	0.68	100	20	1.7	39	30
QI1350MA-R82M-T	0.82	100	20	2.3	36	27
QI1350MA-1R0M-T	1.0	100	20	2.5	35	26
QI1350MA-1R5M-T	1.5	100	20	3.2	33	23
QI1350MA-2R2M-T	2.2	100	20	5.5	32	19
QI1350MA-2R7M-T	2.7	100	20	6.8	28	16
QI1350MA-3R3M-T	3.3	100	20	9.2	25	13
QI1350MA-4R7M-T	4.7	100	20	15	20	13
QI1350MA-5R6M-T	5.6	100	20	16.5	17	11.5
QI1350MA-6R8M-T	6.8	100	20	18	16	11
QI1350MA-8R2M-T	8.2	100	20	22.5	15	8.0
QI1350MA-100M-T	10	100	20	25	13	7.5
QI1350MA-150M-T	15	100	20	30	10	7.0
QI1350MA-220M-T	22	100	20	58	6.5	4.5

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.

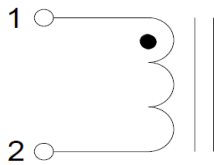
Shape And Dimensions



SUGGESTED PCB LAYOUT

A	B	C	D	E	a (Typ.)	b (Typ.)	c (Typ.)
13.45±0.35	12.6±0.3	5 Max.	See Remarks A	2±0.5	8	15.5	5.5

(Unit: mm)



SCHEMATIC DRAWING

Remarks A :

Nominal Inductance	D
R22、R33、R47、R56、R68、1R0、1R5、2R2	3.85±0.5
2R7、3R3、4R7、5R6、6R8、8R2、100、150、220	5±0.4

Packing Specification

pcs / reel	Reel Size	Inner box (400*350*140mm)	Carton outside (430*380*320mm)
0.5K	13"	3K	6K