

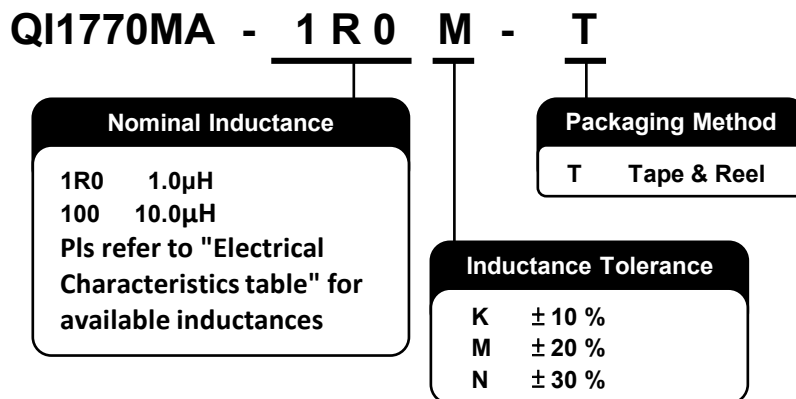
Features

- 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) : 17.9 x 17.0 x 7.0 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



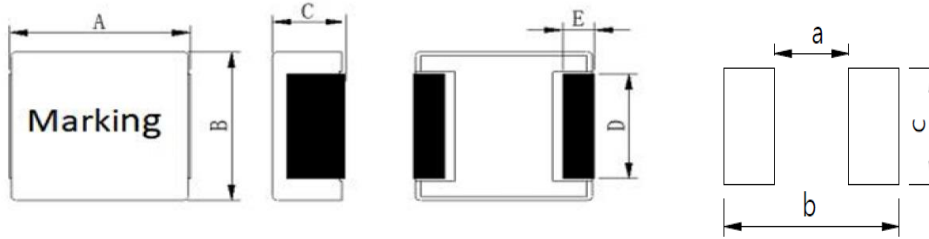
Electrical Characteristics

P/N	Inductance (μ H)	Test Freq. (KHz/1.0V)	Tolerance ($\pm$ %)	DCR (m Ω) Max.	Isat (A)Typ.	Irms (A) Typ.
QI1770MA-1R5M-T	1.5	100	20	2.0	46	32
QI1770MA-2R2M-T	2.2	100	20	2.5	42	27
QI1770MA-3R3M-T	3.3	100	20	3.95	30	22
QI1770MA-4R7M-T	4.7	100	20	4.75	24	19
QI1770MA-5R6M-T	5.6	100	20	7.2	22	18
QI1770MA-6R8M-T	6.8	100	20	7.5	22	17
QI1770MA-8R2M-T	8.2	100	20	8.7	20	13
QI1770MA-100M-T	10	100	20	9.9	19	12
QI1770MA-150M-T	15	100	20	17	14.5	11
QI1770MA-220M-T	22	100	20	23	11.5	8.5
QI1770MA-330M-T	33	100	20	37	10	8.0

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.

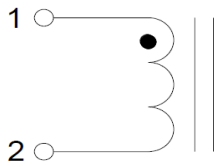
Shape And Dimensions



SUGGESTED PCB LAYOUT

A	B	C	D	E	a (Typ.)	b (Typ.)	c (Typ.)
17.9±0.4	17.0±0.4	7 Max.	11.9±0.5	2.5±0.5	11.2	18.7	12.8

(Unit: mm)



SCHEMATIC DRAWING

Packing Specification

pcs / reel	Reel Size	Inner box (355*340*51mm)	Carton outside (370*365*285mm)
0.2K	13"	0.2K	1K