

MTC SMD Inductor for High Q Signal line

HQC0805 -Series (0805) Ceramic type

FEATURES

- Especially high Q factor in this series for customers' design.
- Resin-coated surface enables excellent mounting.
- Low DC resistance design is ideal for low loss, high output and low power consumption.



APPLICATIONS

- For high-frequency applications including mobile phones, portable phones, such as PA, ANT, VCO, SAW, etc.
- Mobile phones such as GSM, CDMA, PDC, etc.
- Bluetooth, W-LAN



PRODUCT IDENTIFICATION

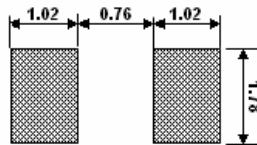
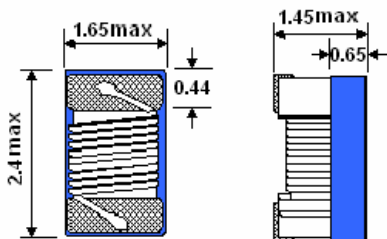
HQC 0805 - 10N J - E

(1) (2) (3) (4) (5)

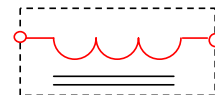
- (1) Product name
- (2) Shapes and Dimensions (LxW)
- (3) Inductance : 10N:10nH, 3N3:3.3nH
- (4) Tolerance: G:±2%, J:±5%, K:±10%
- (5) Lead free, Rohs compliant

SHAPES AND DIMENSIONS (mm)

RECOMMENDED FOOTPRINT



Equivalent circuit



No Polarity

HQC0805- Series (0805)

Our Product Part Number	Inductance (nH)/MHz	Inductance tolerance	Q Min.	SRF(Min.) (MHz)	Rdc(Ω) Max.	Irms(mA)	Color Coding
HQC0805-2N5□-E	2.5/ 250	10.5	80/ 1500	>6000	0.02	1600	Black
HQC0805-5N6□-E	5.6/ 250	10.5	98/ 1500	>6000	0.035	1600	Brown
HQC0805-6N2□-E	6.2/ 250	10.5	88/ 1500	4750	0.035	1600	Red
HQC0805-12N□-E	12/ 250	10.5.2	80/ 1000	3000	0.045	1600	Orange
HQC0805-16N□-E	16/ 250	10.5.2	72/ 500	2950	0.06	1500	Yellow
HQC0805-18N□-E	18/ 250	10.5.2	75/ 500	2550	0.06	1400	Green
HQC0805-20N□-E	20/ 250	10.5.2	70/ 500	2050	0.065	1400	Blue
HQC0805-27N□-E	27/ 250	10.5.2	75/ 500	2000	0.07	1300	Violet
HQC0805-30N□-E	30/ 250	10.5.2	65/ 500	1950	0.095	1200	Gray
HQC0805-39N□-E	39/ 250	10.5.2	65/ 500	1600	0.1	1100	White
HQC0805-48N□-E	48/ 200	10.5.2	65/ 500	1400	0.1	1200	Black
HQC0805-51N□-E	51/ 200	10.5.2	65/ 500	1400	0.12	1000	Brown

- When ordering, please specify tolerance and packaging codes. Ex: HQC0805-12NJ-E
Tolerance : G = $\pm 2\%$, J = $\pm 5\%$, K = $\pm 10\%$, Packaging : Clear tape and reel { standard }. *
- L , Q : Agilent/HP E4991A+ Agilent/HP16197A
- SRF : Agilent/E5071B / Agilent/HP E4991A
- Rdc : DIGITAL MILLIOHM METER Chroma 16502, or equivalent.
- Irms for a 15°C rise above 25°C ambient.
- Operating temperature range from -25°C to 85°C.
- * Parts/Reel: 7" 2,000 Tape Width: 8mm



HQC0805 Characteristics (L,Q vs. Frequency)

