



CM0805 Series



1. Features of CM0805 Series:

- Ceramic base core material for high frequency application.
- Low profile 1.52 mm max height 2.29 x 1.73 mm max Foot print.
- Inductance range: 2.2 nH up to 910.0 nH. Custom values are welcomed
- High self resonant frequency for high Q value.
- Tape & Reel Qtys: 2,000pcs on 7" Reel. RoHS & HF compliant.

2. Electrical Characteristics of CM0805 Series:

ITG Part Number	Inductance (nH)	Tolerance Code	Q Min.	S.R.F Min. (MHz)	DCR Max. (Ω)	I _{max} (mA)
CM0805-2N2xHF	2.2 @ 250 MHz	J,K,M	40 @ 1500MHz	6000.0	0.10	600
CM0805-3N3xHF	3.3 @ 250 MHz	J,K,M	25 @ 1500MHz	6000.0	0.15	600
CM0805-6N8xHF	6.8 @ 250 MHz	J,K,M	50 @ 1000MHz	5000.0	0.11	600
CM0805-8N2xHF	8.2 @ 250 MHz	J,K,M	50 @ 1000MHz	4700.0	0.19	600
CM0805-10N0xHF	10.0 @ 250 MHz	J,K,M	50 @ 500MHz	4200.0	0.14	600
CM0805-12N0xHF	12.0 @ 250 MHz	G,J,K,M	50 @ 500MHz	4000.0	0.15	600
CM0805-15N0xHF	15.0 @ 250 MHz	G,J,K,M	50 @ 500MHz	2900.0	0.17	600
CM0805-18N0xHF	18.0 @ 250 MHz	G,J,K,M	50 @ 500MHz	3300.0	0.20	600
CM0805-22N0xHF	22.0 @ 250 MHz	G,J,K,M	55 @ 500MHz	2600.0	0.22	500
CM0805-27N0xHF	27.0 @ 250 MHz	G,J,K,M	55 @ 500MHz	2500.0	0.25	500
CM0805-33N0xHF	33.0 @ 250 MHz	G,J,K,M	60 @ 500MHz	2050.0	0.27	500
CM0805-39N0xHF	39.0 @ 250 MHz	G,J,K,M	60 @ 500MHz	2000.0	0.29	500
CM0805-47N0xHF	47.0 @ 200 MHz	G,J,K,M	60 @ 500MHz	1650.0	0.31	500
CM0805-R10xHF	100.0 @ 150 MHz	G,J,K,M	60 @ 500MHz	1200.0	0.46	400
CM0805-R12xHF	120.0 @ 150 MHz	G,J,K,M	50 @ 250MHz	1100.0	0.51	400
CM0805-R15xHF	150.0 @ 100 MHz	G,J,K,M	50 @ 250MHz	920.0	0.56	400
CM0805-R18xHF	180.0 @ 100 MHz	G,J,K,M	50 @ 250MHz	870.0	0.64	400
CM0805-R22xHF	220.0 @ 100 MHz	G,J,K,M	45 @ 250MHz	850.0	0.70	400
CM0805-R27xHF	270.0 @ 100 MHz	G,J,K,M	40 @ 250MHz	650.0	1.00	350
CM0805-R33xHF	330.0 @ 100 MHz	G,J,K,M	40 @ 250MHz	600.0	1.50	310
CM0805-R39xHF	390.0 @ 100 MHz	G,J,K,M	35 @ 250MHz	560.0	1.70	290
CM0805-R47xHF	470.0 @ 50 MHz	G,J,K,M	33 @ 100MHz	375.0	1.76	250
CM0805-R56xHF	560.0 @ 25 MHz	G,J,K,M	23 @ 50MHz	340.0	1.90	230
CM0805-R68xHF	680.0 @ 25 MHz	G,J,K,M	23 @ 50MHz	188.0	2.20	190
CM0805-R82xHF	820.0 @ 25 MHz	G,J,K,M	23 @ 50MHz	215.0	2.35	180
CM0805-R91xHF	910.0 @ 25 MHz	G,J,K,M	22 @ 50MHz	180.0	3.00	160

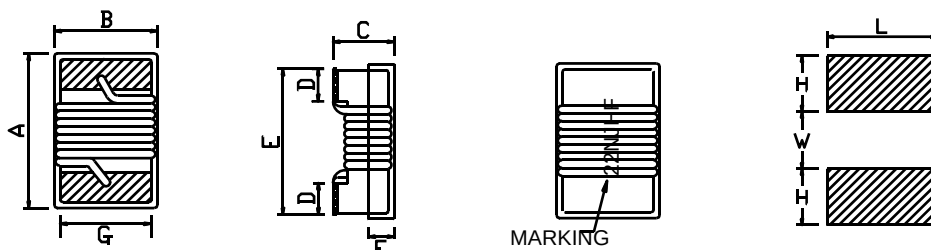
*Note: ITG Part Number x – Denotes the inductance tolerance of the part (e.g. CM0805-22N_JHF has 5.0% inductance tolerance)

G:Inductance Tolerance: ±2.0% J:Inductance Tolerance: ±5.0% K:Inductance Tolerance: ±10.0% M:Inductance Tolerance: ±20.0%

3. Mechanical Dimension of CM0805 Series (unit:mm);

A	B	C	D	E	F	G	H	L	W
Max.	Max.	Max.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.
2.29	1.73	1.52	0.50	2.03	0.51	1.27	1.02	1.78	0.76

Suggested Pad Layout



● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275

● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767

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*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.