

Chip Inductors - MPC12000 Series



- ESA qualified and as per Mil Spec M83446/6
- Excellent Q values even at high frequencies
- Very high self-resonant frequencies (SFRs)
- Extremely stable inductance values from -55 to +125°C
- With or without tab terminations
- Terminations with tin-lead coating or gold plating
- Frequency range 200kHz to 20MHz
- Operating temperature range: -55 to +125°C
- Weight: 0.07 gram • RoHS versions upon request

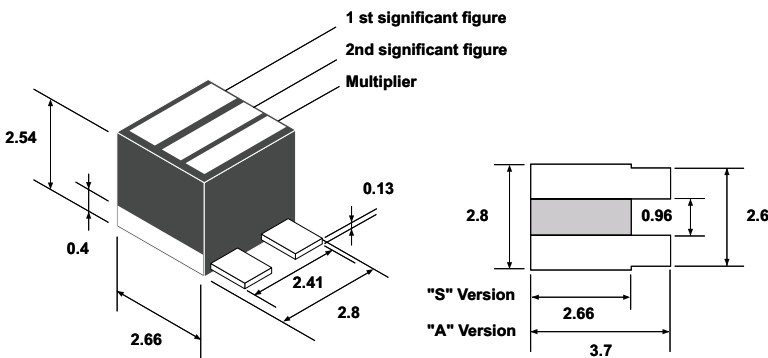
Electrical Data (25°C)

ID Code	Inductance* μH	Q Min	Test Freq. MHz	SFR MHz	Min. DCR Ω	Max. DC Current mA max
MPC12 012 000	12	42	2.5	26	2.0	110
MPC12 015 000	15	44	2.5	24	2.2	105
MPC12 018 000	18	44	2.5	21	2.8	100
MPC12 022 000	22	48	2.5	20	3.5	85
MPC12 027 000	27	49	2.5	19	4.3	75
MPC12 033 000	33	50	2.5	14	5.5	68
MPC12 039 000	39	52	2.5	12	6.5	61
MPC12 047 000	47	53	2.5	11	8.5	54
MPC12 056 000	56	56	2.5	10	12	46
MPC12 068 000	68	53	2.5	9	13	42
MPC12 082 000	82	49	2.5	8	15	40
MPC12 100 000	100	49	2.5	7	18	36

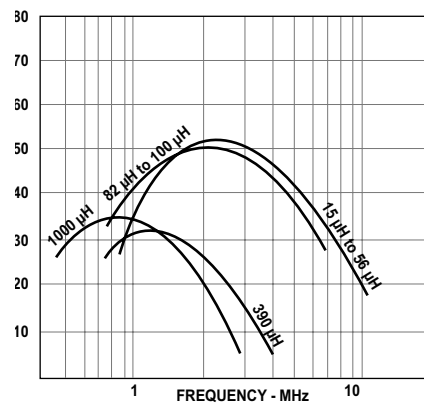
ID Code	Inductance* μH	Q Min	Test Freq. MHz	SFR MHz	Min. DCR Ω	Max. DC Current mA max
MPC12 120 000	120	37	0.79	6.0	21	34
MPC12 150 000	150	30	0.79	5.0	26	31
MPC12 180 000	180	30	0.79	5.0	28	29
MPC12 220 000	220	26	0.79	4.5	32	28
MPC12 270 000	270	26	0.79	4.0	36	26
MPC12 330 000	330	24	0.79	3.7	42	24
MPC12 390 000	390	24	0.79	3.5	46	23
MPC12 470 000	470	24	0.79	3.0	68	19
MPC12 560 000	560	22	0.79	2.8	77	18
MPC12 680 000	680	20	0.79	2.5	85	17
MPC12 820 000	820	16	0.79	2.0	100	16
MPC12 1000 000	1000	12	0.79	1.5	120	15

* Inductance tolerance: ± 10 %. Closer tolerances other, inductance values and S parameters on request.
 Inductance variation: 80 PPM/°C max. in the range 12μH to 100μH; 35 PPM/°C max. in the range 120μH to 1000μH

Dimensions (mm)



Q vs frequency



Ordering Information

MPC12	047000	G	A	10
MPC12000	Inductance value (nH) from 000 010 nH to 1 000 000 nH	Terminations G = Gold T = Tinned	Terminations A = with tab S = without tab	Tolerances 10 for ± 10 % 5 for ± 5 % 2 for ± 2 %

Packaging (mm)

Tape and Reel
 Tray: 81 pieces without tab
 49 pieces with tab