

Multilayer Ferrite Chip Inductors

Application Field

Information technology equipment which includes computer, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, audio equipment, Computers, Hard Drives, Modems, Printers, CD-ROMs, Televisions.

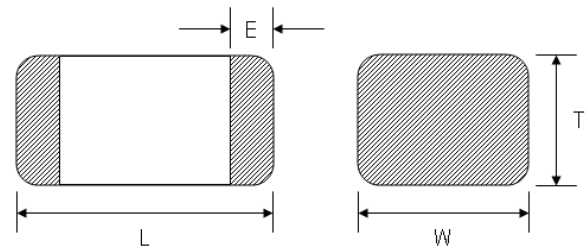
Features

Two functional areas include resonant circuits and chokes require use of an inductor

Directions

Dimensions and footprint (Unit : mm)

- ◎ Impedance Range : 0.047 to 33 μ H
- ◎ Operating Temperature Range : -55°C to +125°C
- ◎ Soldering Method : Reflow or Wave Soldering
- ◎ Packaging Method : Tape & Reel (per EIA Specifications)
- ◎ Storage Temperature : -40°C to +85°C , 70% RH Max



Unit : mm(inches)

Size	Length(L)	Width(W)	Thickness(T)	Electrode Width(E)
MFI-100505	1.00±0.100(0.040±0.004)	0.50±0.100(0.020±0.004)	0.50±0.100(0.020±0.004)	0.25±0.100(0.010±0.004)
MFI-160808	1.60±0.150(0.063±0.006)	0.80±0.150(0.031±0.006)	0.80±0.150(0.031±0.006)	0.30±0.200(0.012±0.008)
MFI-201209	2.00±0.200(0.079±0.008)	1.25±0.200(0.049±0.008)	0.90±0.200(0.035±0.008)	0.50±0.300(0.020±0.012)
MFI-201212	2.00±0.200(0.079±0.008)	1.25±0.200(0.049±0.008)	1.25±0.200(0.049±0.008)	0.50±0.300(0.020±0.012)
MFI-321611	3.20±0.200(0.126±0.008)	1.60±0.200(0.063±0.008)	1.10±0.200(0.043±0.008)	0.50±0.300(0.020±0.012)

Product Detail

Electrical Characteristics			Test Instruments
Z	(Ref. Page 7~10)	TEST FREQ : (Ref. Page 7~10)MHz TEST LEVEL : 250 mV	HP4291B RF IMPEDANCE / MATERIAL ANALYZER HP4338A/B MILLIOHMMETER Agilent 8720ES S-PARAMETER NETWORK ANALYZER HP6632B SYSTEM DC POWER SUPPLY
θ	NA		
SRF	NA		
DCR	(Ref. Page 7~10)		
IDC	mA (Ref. Page 7~10)		

Part Number Code

MFI - 160808 - 12N K
 1 2 3 4

- 1、Product Code
- 2、Dimensions Code
- 3、Inductance = Decimal Point
- 4、Tolerance : J = $\pm 5\%$ 、K = $\pm 10\%$ 、M = $\pm 20\%$

Specification

Part No.	Inductance (μ H)	Q Min.	TEST FREQ. MHz	SRF(MHz) Min.	DCR(Ω) Max	Rated Current Max.(mA)
MFI-100505-R12	0.12	10	25	180	0.70	25
MFI-100505-R15	0.15	10	25	165	0.90	25
MFI-100505-R18	0.18	10	25	150	1.10	25
MFI-100505-R22	0.22	10	25	135	1.30	25
MFI-100505-R27	0.27	10	25	120	1.50	25
MFI-100505-R33	0.33	10	25	105	1.70	25
MFI-100505-R39	0.39	20	10	85	0.60	10
MFI-100505-R47	0.47	20	10	80	0.70	10

Part No.	Inductance (μ H)	Q Min.	TEST FREQ. MHz	SRF(MHz) Min.	DCR(Ω) Max	Rated Current Max.(mA)
MFI-160808-47N	0.047	10	50	260	0.30	50
MFI-160808-68N	0.068	10	50	250	0.30	50
MFI-160808-82N	0.082	10	50	245	0.30	50
MFI-160808-R10	0.10	15	25	240	0.50	50
MFI-160808-R12	0.12	15	25	205	0.50	50
MFI-160808-R15	0.15	15	25	180	0.60	50
MFI-160808-R18	0.18	15	25	165	0.60	50
MFI-160808-R22	0.22	15	25	150	0.80	50
MFI-160808-R27	0.27	15	25	136	0.80	50
MFI-160808-R33	0.33	15	25	125	0.85	35
MFI-160808-R39	0.39	15	25	110	1.00	35
MFI-160808-R47	0.47	15	25	105	1.35	35
MFI-160808-R56	0.56	15	25	95	1.55	35
MFI-160808-R68	0.68	15	25	90	1.70	35
MFI-160808-R82	0.82	15	25	85	2.10	35
MFI-160808-1R0	1.00	35	10	75	0.60	25
MFI-160808-1R2	1.20	35	10	65	0.80	25
MFI-160808-1R5	1.50	35	10	60	0.80	25
MFI-160808-1R8	1.80	35	10	55	0.95	25
MFI-160808-2R2	2.20	35	10	50	1.15	15
MFI-160808-2R7	2.70	35	10	45	1.35	15
MFI-160808-3R3	3.30	35	10	40	1.55	15
MFI-160808-3R9	3.90	35	10	35	1.70	15

Part No.	Inductance (μH)	Q Min.	TEST FREQ. MHz	SRF(MHz) Min.	DCR(Ω) Max	Rated Current Max.(mA)
MFI-160808-4R7	4.70	35	10	33	2.10	15
MFI-160808-5R6	5.60	35	4	22	1.55	5
MFI-160808-6R8	6.80	35	4	20	1.70	5
MFI-160808-8R2	8.20	35	4	18	2.10	5
MFI-160808-100	10.0	30	2	17	1.85	3
MFI-160808-120	12.0	30	2	15	2.10	3
MFI-160808-150	15.0	20	1	14	1.70	1

Part No.	Inductance (μH)	Q Min.	TEST FREQ. MHz	SRF(MHz) Min.	DCR(Ω) Max	Rated Current Max.(mA)
MFI-201209-47N	0.047	15	50	320	0.20	300
MFI-201209-68N	0.068	15	50	280	0.20	300
MFI-201209-82N	0.082	15	50	255	0.20	250
MFI-201209-R10	0.10	20	25	235	0.30	250
MFI-201209-R12	0.12	20	25	220	0.30	250
MFI-201209-R15	0.15	20	25	200	0.40	250
MFI-201209-R18	0.18	20	25	185	0.40	250
MFI-201209-R22	0.22	20	25	170	0.50	250
MFI-201209-R27	0.27	20	25	150	0.50	250
MFI-201209-R33	0.33	20	25	145	0.55	250
MFI-201209-R39	0.39	25	25	135	0.65	200
MFI-201209-R47	0.47	25	25	125	0.65	200
MFI-201209-R56	0.56	25	25	115	0.75	150
MFI-201209-R68	0.68	25	25	105	0.80	150
MFI-201209-R82	0.82	25	25	100	1.00	150
MFI-201209-1R0	1.00	45	10	75	0.40	50
MFI-201209-1R2	1.20	45	10	65	0.50	50
MFI-201209-1R5	1.50	45	10	60	0.50	50
MFI-201209-1R8	1.80	45	10	55	0.60	50
MFI-201209-2R2	2.20	45	10	50	0.65	30
MFI-201209-2R7	2.70	45	10	45	0.75	30
MFI-201209-3R3	3.30	45	10	41	0.80	30
MFI-201209-3R9	3.90	45	10	38	0.90	15

Part No.	Inductance (μH)	Q Min.	TEST FREQ. MHz	SRF(MHz) Min.	DCR(Ω) Max	Rated Current Max.(mA)
MFI-201212-4R7	4.70	45	10	35	1.00	15
MFI-201212-5R6	5.60	50	4	32	0.90	15
MFI-201212-6R8	6.80	50	4	29	1.00	15
MFI-201212-8R2	8.20	50	4	26	1.10	15
MFI-201212-100	10.0	50	2	24	1.15	15
MFI-201212-120	12.0	50	1	22	1.25	15
MFI-201212-150	15.0	30	1	19	0.80	5
MFI-201212-180	18.0	30	1	18	0.90	5
MFI-201212-220	22.0	30	1	16	1.10	5
MFI-201212-270	27.0	30	1	14	1.15	5
MFI-201212-330	33.0	30	0.4	13	1.25	5

Part No.	Inductance (μ H)	Q Min.	TEST FREQ. MHz	SRF(MHz) Min.	DCR(Ω) Max	Rated Current Max.(mA)
MFI-321611-47N	0.047	20	50	320	0.15	300
MFI-321611-56N	0.068	20	50	280	0.25	300
MFI-321611-R10	0.10	20	25	235	0.25	250
MFI-321611-R12	0.12	20	25	220	0.30	250
MFI-321611-R15	0.15	20	25	200	0.30	250
MFI-321611-R18	0.18	20	25	185	0.40	250
MFI-321611-R22	0.22	20	25	170	0.50	250
MFI-321611-R27	0.27	20	25	150	0.50	250
MFI-321611-R33	0.33	20	25	145	0.60	250
MFI-321611-R39	0.39	25	25	135	0.50	200
MFI-321611-R47	0.47	25	25	125	0.60	200
MFI-321611-R56	0.56	25	25	115	0.70	150
MFI-321611-R68	0.68	25	25	105	0.80	150
MFI-321611-R82	0.82	25	25	100	0.90	150
MFI-321611-1R0	1.00	30	10	75	0.40	100
MFI-321611-1R2	1.20	30	10	65	0.50	100
MFI-321611-1R5	1.50	30	10	60	0.50	50
MFI-321611-1R8	1.80	30	10	55	0.50	50
MFI-321611-2R2	2.20	30	10	50	0.60	50
MFI-321611-2R7	2.70	30	10	45	0.60	50
MFI-321611-3R3	3.30	30	10	41	0.70	50
MFI-321611-3R9	3.90	30	10	38	0.80	50
MFI-321611-4R7	4.70	30	10	35	0.90	50
MFI-321611-5R6	5.60	35	4	32	0.70	25
MFI-321611-6R8	6.80	35	4	29	0.90	25
MFI-321611-8R2	8.20	35	4	26	0.90	25
MFI-321611-100	10.0	35	2	24	1.00	25
MFI-321611-120	12.0	35	2	22	1.05	15
MFI-321611-150	15.0	30	1	19	0.70	5
MFI-321611-180	18.0	30	1	18	0.70	5
MFI-321611-220	22.0	30	1	16	0.90	5
MFI-321611-270	27.0	30	1	14	0.90	5
MFI-321611-330	33.0	30	0.4	13	1.05	5