

CHIP INDUCTOR

Multilayer Chip Type

Compact Size • High SRF • High Reliability



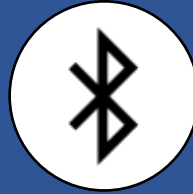
MOBILE
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CAMERA



HEADPHONE

MGFI Series (Ferrite Chip Inductor)

- 1005/1608/2012 Size



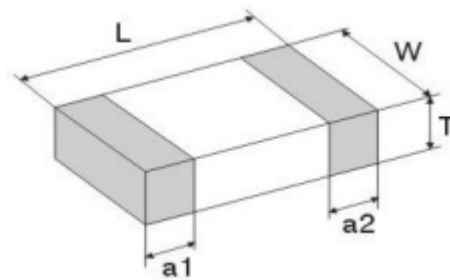
Ordering Information

MGFI 2012 A 47N K T - LF

(1) (2) (3) (4) (5) (6) (7)

- (1) Series Name
- (2) Product Dimension (L*W mm)
- (3) Material Code
- (4) Inductance Value (47N: 0.047uH / R10: 0.1uH / 2R7: 2.7uH / 150: 15uH)
- (5) Inductance Tolerance (J: ± 5% / K: ± 10% / M: ± 20%)
- (6) Packing Style (T: Taping / B: Bulk)
- (7) Lead Free Products

Shape & Dimensions



Size	Dimensions (mm / Inch)			
	L	W	T	a1, a2
1005 [0402]	1.00±0.15 [0.04±0.006]	0.50±0.15 [0.02±0.006]	0.50±0.15 [0.02±0.006]	0.25±0.10 [0.01±0.004]
1608 [0603]	1.60±0.15 [0.063±0.006]	0.80±0.15 [0.031±0.006]	0.80±0.15 [0.031±0.006]	0.30±0.20 [0.012±0.008]
2012 [0805]	2.00±0.20 [0.079±0.008]	1.25±0.20 [0.049±0.008]	0.85±0.20 [0.033±0.008]	0.50±0.30 [0.02±0.012]
2012 [0805]	2.00±0.20 [0.079±0.008]	1.25±0.20 [0.049±0.008]	1.25±0.20 [0.049±0.008]	0.50±0.30 [0.02±0.012]

MGFI1005A/C/D Series

Microgate Part No.	Inductance (μ H)	Q Min.	L Test Freq. (MHz)	SRF (MHz) Min.	RDC (Ω) Max.	I _r (mA) Max.
MGFI1005A47N□	0.047	10	50	220	0.45	25
MGFI1005A56N□	0.056	10	50	220	0.45	25
MGFI1005A68N□	0.068	10	50	210	0.45	25
MGFI1005A82N□	0.082	10	50	200	0.45	25
MGFI1005AR10□	0.1	15	25	200	0.70	25
MGFI1005AR12□	0.12	15	25	165	0.70	25
MGFI1005AR15□	0.15	15	25	140	0.90	25
MGFI1005AR18□	0.18	15	25	120	1.10	25
MGFI1005AR22□	0.22	15	25	110	1.20	25
MGFI1005AR27□	0.27	15	25	95	1.20	25
MGFI1005AR33□	0.33	15	25	85	1.25	18
MGFI1005AR39□	0.39	15	25	70	1.50	18
MGFI1005AR47□	0.47	20	25	68	2.00	18
MGFI1005AR56□	0.56	20	25	55	2.35	18
MGFI1005AR68□	0.68	20	25	50	2.55	18
MGFI1005AR82□	0.82	20	25	45	3.15	18
MGFI1005C1R0□	1	20	10	40	0.90	15
MGFI1005C1R2□	1.2	20	10	35	1.20	15
MGFI1005C1R5□	1.5	20	10	30	1.20	15
MGFI1005C1R8□	1.8	20	10	30	1.45	15
MGFI1005C2R2□	2.2	20	10	28	1.75	10
MGFI1005C2R7□	2.7	20	10	22	2.00	10
MGFI1005C3R3□	3.3	20	10	20	2.35	10
MGFI1005C3R9□	3.9	20	10	18	2.55	10
MGFI1005C4R7□	4.7	20	10	15	3.15	10
MGFI1005D5R6□	5.6	20	4	13	2.35	3
MGFI1005D6R8□	6.8	20	4	11	2.55	3
MGFI1005D8R2□	8.2	20	4	10	3.15	3
MGFI1005D100□	10	20	2	9	3.45	2

MGFI1608A/C/D/E Series

Microgate Part No.	Inductance (μ H)	Q Min.	L Test Freq. (MHz)	SRF (MHz) Min.	RDC (Ω) Max.	I _r (mA) Max.
MGFI1608A47N□	0.047	15	50	600	0.20	50
MGFI1608A56N□	0.056	15	50	550	0.30	50
MGFI1608A68N□	0.068	15	50	500	0.30	50
MGFI1608A82N□	0.082	15	50	450	0.30	50
MGFI1608AR10□	0.1	15	25	400	0.50	50
MGFI1608AR12□	0.12	15	25	350	0.50	50
MGFI1608AR15□	0.15	15	25	300	0.60	50
MGFI1608AR18□	0.18	15	25	280	0.60	50
MGFI1608AR22□	0.22	15	25	260	0.80	50
MGFI1608AR27□	0.27	15	25	255	0.80	50
MGFI1608AR33□	0.33	15	25	250	0.85	35
MGFI1608AR39□	0.39	15	25	245	1.00	35
MGFI1608AR47□	0.47	15	25	240	1.35	35
MGFI1608AR56□	0.56	15	25	205	1.55	35
MGFI1608AR68□	0.68	15	25	180	1.70	35
MGFI1608AR82□	0.82	15	25	165	2.10	35
MGFI1608C1R0□	1	35	10	125	0.60	25
MGFI1608C1R2□	1.2	35	10	110	0.80	25
MGFI1608C1R5□	1.5	35	10	105	0.80	25
MGFI1608C1R8□	1.8	35	10	95	0.95	25
MGFI1608C2R2□	2.2	35	10	90	1.15	15
MGFI1608C2R7□	2.7	35	10	80	1.35	15
MGFI1608C3R3□	3.3	35	10	70	1.55	15
MGFI1608C3R9□	3.9	35	10	60	1.70	15
MGFI1608C4R7□	4.7	35	10	50	2.10	15
MGFI1608D5R6□	5.6	35	4	45	1.55	5
MGFI1608D6R8□	6.8	35	4	40	1.70	5
MGFI1608D8R2□	8.2	35	4	35	2.10	4
MGFI1608D100□	10	35	2	33	2.55	3
MGFI1608D120□	12	35	2	22	2.75	3
MGFI1608E150□	15	20	1	20	1.70	1
MGFI1608E180□	18	20	1	18	1.85	1

MGFI1608A/C/D/E Series

Microgate Part No.	Inductance (μ H)	Q Min.	L Test Freq. (MHz)	SRF (MHz) Min.	RDC (Ω) Max.	I _r (mA) Max.
MGFI1608E220□	22	20	1	15	2.10	1
MGFI1608E270□	27	20	1	12	2.75	1
MGFI1608E330□	33	20	1	10	2.95	1

MGFI2012A/C/D/E Series

Microgate Part No.	Inductance (uH)	Q Min.	L Test Freq. (MHz)	SRF (MHz) Min.	RDC (Ω) Max.	Ir (mA) Max.
MGFI2012A47N□	0.047	15	50	350	0.20	300
MGFI2012A56N□	0.056	15	50	350	0.20	300
MGFI2012A68N□	0.068	15	50	280	0.20	300
MGFI2012A82N□	0.082	15	50	255	0.20	300
MGFI2012AR10□	0.1	20	25	235	0.30	250
MGFI2012AR12□	0.12	20	25	220	0.30	250
MGFI2012AR15□	0.15	20	25	200	0.40	250
MGFI2012AR18□	0.18	20	25	185	0.40	250
MGFI2012AR22□	0.22	20	25	170	0.50	250
MGFI2012AR27□	0.27	20	25	150	0.50	250
MGFI2012AR33□	0.33	20	25	145	0.55	250
MGFI2012AR39□	0.39	25	25	135	0.65	200
MGFI2012AR47□	0.47	25	25	125	0.65	200
MGFI2012AR56□	0.56	25	25	115	0.75	150
MGFI2012AR68□	0.68	25	25	105	0.80	150
MGFI2012AR82□	0.82	25	25	100	1.00	150
MGFI2012C1R0□	1	45	10	75	0.40	50
MGFI2012C1R2□	1.2	45	10	65	0.50	50
MGFI2012C1R5□	1.5	45	10	60	0.50	50
MGFI2012C1R8□	1.8	45	10	55	0.60	50
MGFI2012C2R2□	2.2	45	10	50	0.65	30
MGFI2012C2R7□	2.7	45	10	45	0.75	30
MGFI2012C3R3□	3.3	45	10	41	0.80	30
MGFI2012C3R9□	3.9	50	10	38	0.90	30
MGFI2012C4R7□	4.7	50	10	35	1.00	30
MGFI2012D5R6□	5.6	50	4	32	0.90	15
MGFI2012D6R8□	6.8	50	4	29	1.00	15
MGFI2012D8R2□	8.2	50	4	26	1.10	15
MGFI2012D100□	10	50	2	24	1.15	15
MGFI2012D120□	12	50	2	22	1.25	15
MGFI2012E150□	15	30	1	19	0.80	5
MGFI2012E180□	18	30	1	18	0.90	5

MGFI2012A/C/D/E Series

Microgate Part No.	Inductance (uH)	Q Min.	L Test Freq. (MHz)	SRF (MHz) Min.	RDC (Ω) Max.	Ir (mA) Max.
MGFI2012E220□	22	30	1	16	1.10	5
MGFI2012E270□	27	25	1	14	1.15	5
MGFI2012E330□	33	25	1	13	1.25	5
MGFI2012E390□	39	25	1	13	1.50	4
MGFI2012E470□	47	25	1	12	1.80	4
MGFI2012E560□	56	25	1	11	2.20	4
MGFI2012E680□	68	25	1	10	2.20	2
MGFI2012E820□	82	25	1	9	2.50	2
MGFI2012E101□	100	25	1	8	2.50	2

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