Ferrite Multilayer Chip Inductor

--------KCFI Series

Feature

1. Internal printed coil structure creates a closed magnetic circuit which acts as a magnetic shield eliminating crosstalk, thus permitting higher mounting densities;
2. Monolithic structure yields high reliability;
3. Excellent solderability and high heat resistant permit flow or reflow soldering.

Application

Any general circuit of portable equipment in which compact size and high mounting densities are required.

Available type

KCFI1005: 0.047μH – 12.0μH
KCFI1608: 0.047μH – 33μH
KCFI2012: 0.047μH - 82μH
KCFI3216: 0.047μH - 120μH
KCFI4532: 0.068μH - 330μH

Identification

KCFI	1005	M	1R8	K	T
1	2	3	4	5	6

1. Series name
2. Type
3. Material code
4. Inductance (68N: 68nH; R10: 0.1μH; 100: 10μH)
5. Tolerance (S: ±0.3nH; D: ±0.5nH; J:±5%; K: ±10%; M: ±20%)
6. Package (T: Taping B: bulk)

KCFI 1005 TYPE

Kingcera P/N	L (μH)	Tolerance	Q min	L.Q test Freq. (MHz)	SRF min (MHz)	DCR(Ω) max	Rated current (mA) max
KCFI1005G47N□○	0.047	± 20% or ± 10%	10	50	220	0.45	50
KCFI1005G68N□○	0.068		10	50	210	0.45	50
KCFI1005G82N□○	0.082		10	50	200	0.45	50
KCFI1005GR10□○	0.10		15	25	200	0.80	50
KCFI1005GR12□○	0.12		15	25	165	0.80	25
KCFI1005GR15□○	0.15		15	25	140	0.90	25
KCFI1005GR18□○	0.18		15	25	120	0.90	25
KCFI1005GR22□○	0.22		15	25	110	1.20	25
KCFI1005GR27□○	0.27		15	25	95	1.20	25
KCFI1005GR33□○	0.33		15	25	85	1.25	20
KCFI1005GR39□○	0.39		15	25	70	1.50	20
KCFI1005GR47□○	0.47		15	25	68	2.00	20
KCFI1005GR56□○	0.56		15	25	55	2.35	20
KCFI1005GR68□○	0.68		15	25	50	2.55	20
KCFI1005GR82□○	0.82		15	25	45	3.15	20
KCFI1005M1R0□○	1.0		20	10	40	1.50	15
KCFI1005M1R2□○	1.2		20	10	35	1.60	15
KCFI1005M1R5□○	1.5		20	10	30	1.90	15
KCFI1005M1R8□○	1.8		20	10	30	1.90	15
KCFI1005M2R2□○	2.2		20	10	28	2.00	15
KCFI1005M2R7□○	2.7		20	10	22	2.00	15
KCFI1005M3R3□○	3.3		20	10	18	2.00	15
KCFI1005M3R9□○	3.9		20	10	18	2.2	15
KCFI1005M4R7□○	4.7		20	10	15	2.5	15
KCFI1005M5R6□○	5.6		20	4	13	2.2	15
KCFI1005M6R8□○	6.8		20	4	11	2.5	15
KCFI1005M8R2□○	8.2		20	4	10	2.9	15
KCFI1005M100□○	10.0		20	2	9	3.0	10

KCFI 1608 TYPE

Kingcera P/N	L (μH)	Tolerance	Q min	L.Q test Freq. (MHz)	SRF min (MHz)	DCR(Ω) max	Rated current (mA) max
KCFI1608GR15□○	0.15		15	25	180	0.60	50
KCFI1608GR18□○	0.18		15	25	165	0.60	50
KCFI1608GR22□○	0.22		15	25	150	0.80	50
KCFI1608GR27□○	0.27		15	25	136	0.80	50
KCFI1608GR33□○	0.33		15	25	125	0.85	35
KCFI1608GR39□○	0.39		15	25	110	1.00	35
KCFI1608GR47□○	0.47		15	25	105	1.35	35
KCFI1608GR56□○	0.56		15	25	95	1.55	35
KCFI1608GR68□○	0.68		15	25	90	1.70	35
KCFI1608GR82□○	0.82		15	25	85	2.10	35
KCFI1608M1R0□○	1.0		35	10	75	0.60	25
KCFI1608M1R2□○	1.2		35	10	65	0.80	25
KCFI1608M1R5□○	1.5		35	10	60	0.80	25
KCFI1608M1R8□○	1.8		35	10	55	0.95	25
KCFI1608M2R2□○	2.2		35	10	50	1.15	15
KCFI1608M2R7□○	2.7		35	10	45	1.35	15
KCFI1608M3R3□○	3.3		35	10	40	1.55	15
KCFI1608M3R9□○	3.9		35	10	36	1.70	15
KCFI1608M4R7□○	4.7		35	10	33	2.10	15
KCFI1608K5R6□○	5.6		35	4	22	1.55	5
KCFI1608K6R8□○	6.8		35	4	20	1.70	5
KCFI1608K8R2□○	8.2		35	4	18	2.10	5
KCFI1608K100□○	10.0		35	2	17	2.55	5
KCFI1608K120□○	12.0		35	2	15	2.75	5
KCFI1608N150□○	15.0		20	1	14	1.70	1
KCFI1608N180□○	18.0		20	1	13	1.85	1
KCFI1608N220□○	22.0		20	1	11	2.10	1

KCFI 2012 TYPE

Kingcera P/N	L (μH)	Tolerance	Q min	L.Q test Freq. (MHz)	SRF min (MHz)	DCR(Ω) max	Rated current (mA) max
KCFI2012GR15□○	0.15		20	25	200	0.40	250
KCFI2012GR18□○	0.18		20	25	185	0.40	250
KCFI2012GR22□○	0.22		20	25	170	0.50	250
KCFI2012GR27□○	0.27		20	25	150	0.50	250
KCFI2012GR33□○	0.33		20	25	145	0.55	250
KCFI2012GR39□○	0.39		25	25	135	0.65	200
KCFI2012GR47□○	0.47		25	25	125	0.65	200
KCFI2012GR56□○	0.56		25	25	115	0.75	150
KCFI2012GR68□○	0.68		25	25	105	0.80	150
KCFI2012GR82□○	0.82		25	25	100	1.00	150
KCFI2012M1R0□○	1.0		45	10	75	0.40	50
KCFI2012M1R2□○	1.2		45	10	65	0.50	50
KCFI2012M1R5□○	1.5		45	10	60	0.50	50
KCFI2012M1R8□○	1.8	± 20%	45	10	55	0.60	50
KCFI2012M2R2□○	2.2	or	45	10	50	0.65	30
KCFI2012M2R7□○	2.7	± 10%	45	10	45	0.75	30
KCFI2012M3R3□○	3.3		45	10	41	0.80	30
KCFI2012M3R9□○	3.9		45	10	38	0.90	30
KCFI2012M4R7□○	4.7		45	10	35	1.00	30
KCFI2012K5R6□○	5.6		50	4	32	0.90	15
KCFI2012K6R8□○	6.8		50	4	29	1.00	15
KCFI2012K8R2□○	8.2		50	4	26	1.10	15
KCFI2012K100□○	10		50	2	24	1.20	15
KCFI2012K120□○	12		50	2	22	1.30	15
KCFI2012N150□○	15		30	1	19	0.80	5
KCFI2012N180□○	18		30	1	18	0.90	5
KCFI2012N220□○	22		30	1	16	1.10	5
KCFI2012N270□○	27		30	1	14	1.20	5
KCFI2012N330□○	33		30	1	13	1.30	5

KCFI 3216 TYPE

Kingcera P/N	L (μH)	Tolerance	Q min	L.Q test Freq. (MHz)	SRF min (MHz)	DCR(Ω) max	Rated current (mA) max
KCFI3216G47N□○	0.047	± 20% or ± 10%	20	50	320	0.15	400
KCFI3216G68N□○	0.068		20	50	280	0.25	400
KCFI3216GR10□○	0.10		20	25	235	0.25	300
KCFI3216GR12□○	0.12		20	25	220	0.30	300
KCFI3216GR15□○	0.15		20	25	200	0.30	300
KCFI3216GR18□○	0.18		20	25	185	0.40	250
KCFI3216GR22□○	0.22		20	25	170	0.40	250
KCFI3216GR27□○	0.27		20	25	150	0.50	250
KCFI3216GR33□○	0.33		20	25	145	0.60	250
KCFI3216GR39□○	0.39		25	25	135	0.50	200
KCFI3216GR47□○	0.47		25	25	125	0.60	200
KCFI3216GR56□○	0.56		25	25	115	0.70	150
KCFI3216GR68□○	0.68		25	25	105	0.80	150
KCFI3216GR82□○	0.82		25	25	100	0.90	150
KCFI3216M1R0□○	1.0		45	10	75	0.40	100
KCFI3216M1R2□○	1.2		45	10	65	0.50	100
KCFI3216M1R5□○	1.5		45	10	60	0.50	50
KCFI3216M1R8□○	1.8		45	10	55	0.50	50
KCFI3216M2R2□○	2.2		45	10	50	0.60	50
KCFI3216M2R7□○	2.7		45	10	45	0.60	50
KCFI3216M3R3□○	3.3		45	10	41	0.70	50
KCFI3216M3R9□○	3.9		45	10	38	0.80	50
KCFI3216M4R7□○	4.7		45	10	35	0.90	50
KCFI3216K5R6□○	5.6		50	4	32	0.70	25
KCFI3216K6R8□○	6.8		50	4	29	0.80	25
KCFI3216K8R2□○	8.2		50	4	26	0.90	25
KCFI3216K100□○	10.0		50	2	24	1.00	25
KCFI3216K120□○	12.0		50	2	22	1.05	15
KCFI3216N150□○	15.0		35	1	19	0.70	5
KCFI3216N180□○	18.0		35	1	18	0.70	5
KCFI3216N220□○	22.0		35	1	16	0.90	5
KCFI3216N270□○	27.0		35	1	14	0.90	5
KCFI3216N330□○	33.0		35	1	13	1.05	5
KCFI3216N390□○	39.0		40	1	11	1.20	5
KCFI3216N470□○	47.0		40	1	10	1.40	5
KCFI3216N560□○	56.0		40	1	10	1.60	5
KCFI3216N680□○	68.0		40	1	10	1.80	5
KCFI3216N820□○	82.0		40	1	10	2.20	5
KCFI3216N101□○	100		40	1	10	2.60	5
KCFI3216N121□○	120		30	1	9	2.90	5