JY ELECTRONIC COMPANY

SMD CHIP INDUCTOR

JYHF SERIES

FEATURES/APPLICATOINS

.Carrier tape packing use for SMT
.Can be used in a wide range of frequency to suppress EMI
.Excellent solder ability
.Suitable for reflow STM craft soldering
.Lead free products, ROHS compliant
.Widely use in Noise suppression in Digital equipment such as Computer peripheral devices /VCR /VCD /DVD /Camera /OA equipments etc.

Page

PRODUCT INDICATION

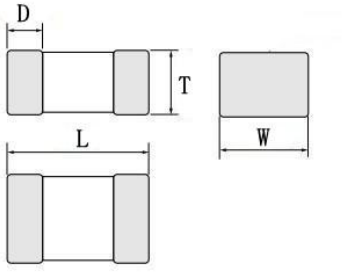
JYHF 1608 C R10 J

① ② ③ ④ ⑤

① Product type: JYHF type
② External dimension：16 for Diameter 1.6mm，08 for Width 0.8mm
③ Material code：F , C，L，Q，S，T
④ Nominal impedance：R10 for 100NH
⑤ Tolerance: S for ±0.3nH J for ±5% K for ±10%

SHAPE AND DIMENSIONS

unit mm(inch)



PartNO	L	W	T	D
0603 (0201)	0.6±0.03 (0.023±0.006)	0.3±0.03 (0.012±0.006)	0.3±0.03 (0.012±0.006)	0.15±0.05 (0.005±0.006)
1005 (0402)	1.0±0.15 (0.040±0.006)	0.5±0.15 (0.020±0.006)	0.5±0.15 (0.020±0.006)	0.25±0.10 (0.010±0.004)
1608 (0603)	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	0.8±0.2 (0.031±0.008)	0.3±0.2 (0.01±0.008)
2012 (0805) 1.5nh~220nh	2.0±0.2 (0.079±0.008)	1.2±0.2 (0.047±0.008)	0.9±0.2 (0.035±0.008)	0.5±0.3 (0.020±0.012)
2012 (0805) 270nh~470nh	2.0±0.2 (0.079±0.008)	1.2±0.2 (0.047±0.008)	1.0±0.2 (0.039±0.008)	0.5±0.3 (0.020±0.012)

■ Notes:

● HP4191A

Impedance instrument HP4191A Impedance analyzer

● 100MHz

Inductance testing condition：100MHz.

●DCR instrument：TH2512B or DCR test equipment equivalent .

● Rated Current test：VR7210&VR113H.

●Rated Current definition：Inductance drop by 25% or temperature rise by 40℃，

the lesser of the minimum as the rated current.

Temperature storage:-25~80 ; the relative humidity : RH65%~85%

Electrical Characteristics JYHF0603(0201) Series(15000pcs/reel)

Part NO	L(nH)	L Tol	Q Min	L,Q Test Freq(MHz)	S.R.F (MHz)Min	DCR(Ω)Max	Ir(mA)Max
JYHF0603C1N0S	1	±0.3nH	4	100	>10000	0.11	470
JYHF0603C1N2S	1.2	±0.3nH	4	100	>10000	0.12	450
JYHF0603C1N5S	1.5	±0.3nH	4	100	>10000	0.13	430
JYHF0603C1N8S	1.8	±0.3nH	4	100	>10000	0.16	390
JYHF0603C2N0S	2	±0.3nH	4	100	>10000	0.17	380
JYHF0603C2N2S	2.2	±0.3nH	4	100	8800	0.19	360
JYHF0603C2N4S	2.4	±0.3nH	4	100	8300	0.2	350
JYHF0603C2N7S	2.7	±0.3nH	4	100	7700	0.21	340
JYHF0603C3N0S	3	±0.3nH	4	100	7200	0.22	330
JYHF0603C3N3S	3.3	±0.3nH	4	100	6700	0.23	320
JYHF0603C3N6S	3.6	±0.3nH	4	100	6400	0.25	310
JYHF0603C3N9S	3.9	±0.3nH	4	100	6000	0.27	300
JYHF0603C4N3S	4.3	±0.3nH	4	100	5700	0.3	280
JYHF0603C4N7S	4.7	±0.3nH	4	100	5300	0.3	280
JYHF0603C5N1S	5.1	±0.3nH	4	100	5000	0.33	270
JYHF0603C5N6S	5.6	±0.3nH	4	100	4600	0.36	260
JYHF0603C6N2S	6.2	±0.3nH	4	100	4200	0.38	250
JYHF0603C6N8J	6.8	5%	4	100	3900	0.39	250
JYHF0603C7N5J	7.5	5%	4	100	3600	0.41	240
JYHF0603C8N2J	8.2	5%	4	100	3400	0.45	230
JYHF0603C9N1J	9.1	5%	4	100	3200	0.48	220
JYHF0603C10NJ	10	5%	4	100	2900	0.51	220
JYHF0603C12NJ	12	5%	4	100	2700	0.68	190
JYHF0603C15NJ	15	5%	4	100	2300	0.71	180
JYHF0603C18NJ	18	5%	4	100	2100	0.81	170
JYHF0603C22NJ	22	5%	4	100	1800	1	150
JYHF0603C27NJ	27	5%	4	100	1800	1.35	120
JYHF0603C33NJ	33	5%	4	100	1700	1.47	110
JYHF0603C39NJ	39	5%	4	100	1500	1.72	100
JYHF0603C47NJ	47	5%	4	100	1300	1.9	100
JYHF0603C56NJ	56	5%	4	100	1100	2.27	80
JYHF0603C68NJ	68	5%	4	100	1100	2.66	80
JYHF0603C82NJ	82	5%	4	100	1000	3.37	70
JYHF0603CR10J	100	5%	4	100	900	3.74	60

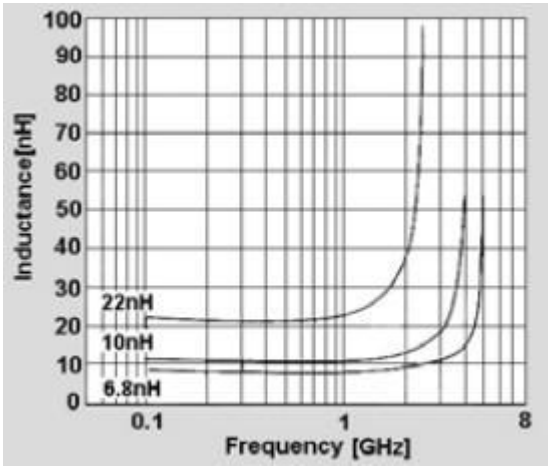
Electrical Characteristics JYHF1005(0402) Series(10000pcs/reel)

OPEARATING TEMP.-55~125℃

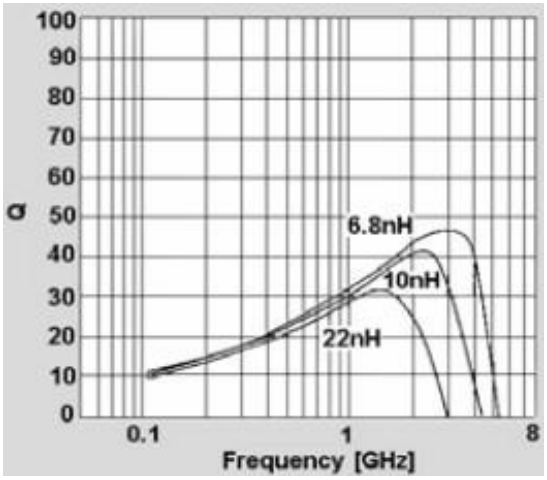
Part NO	L(nH)	L Tol	Q Min	L,Q Test Freq(MHz)	S.R.F (MHz)Min	DCR(Ω)Max	Ir(mA)Max
JYHF1005C1N0S	1	±0.3nH	8	100	6000	0.1	400
JYHF1005C1N2S	1.2	±0.3nH	8	100	6000	0.1	400
JYHF1005C1N5S	1.5	±0.3nH	8	100	6000	0.13	400
JYHF1005C1N8S	1.8	±0.3nH	8	100	6000	0.14	400
JYHF1005C2N2S	2.2	±0.3nH	8	100	6000	0.16	400
JYHF1005C2N7S	2.7	±0.3nH	8	100	5500	0.17	400
JYHF1005C3N3S	3.3	±0.3nH	8	100	5500	0.19	400
JYHF1005C3N9S	3.9	±0.3nH	8	100	5200	0.22	400
JYHF1005C4N7S	4.7	±0.3nH	8	100	4800	0.24	400
JYHF1005C5N6S	5.6	±0.3nH	8	100	4600	0.27	400
JYHF1005C6N8J	6.8	±5%	8	100	4000	0.32	300
JYHF1005C8N2J	8.2	±5%	8	100	3600	0.37	300
JYHF1005C10NJ	10	±5%	8	100	3200	0.42	300
JYHF1005C12NJ	12	±5%	8	100	2800	0.5	300
JYHF1005C15NJ	15	±5%	8	100	2500	0.55	300
JYHF1005C18NJ	18	±5%	8	100	2200	0.65	300
JYHF1005C22NJ	22	±5%	8	100	2000	0.8	200
JYHF1005C27NJ	27	±5%	8	100	1600	0.9	200
JYHF1005C33NJ	33	±5%	8	100	1300	1	200
JYHF1005C39NJ	39	±5%	8	100	1200	1.2	150
JYHF1005C47NJ	47	±5%	8	100	1000	1.3	150
JYHF1005C56NJ	56	±5%	8	100	900	1.6	150
JYHF1005C68NJ	68	±5%	8	100	900	2.1	150
JYHF1005C82NJ	82	±5%	8	100	900	2.4	150
JYHF1005CR10J	100	±5%	8	100	900	2.6	150

CHARACTERISTICS CURVES

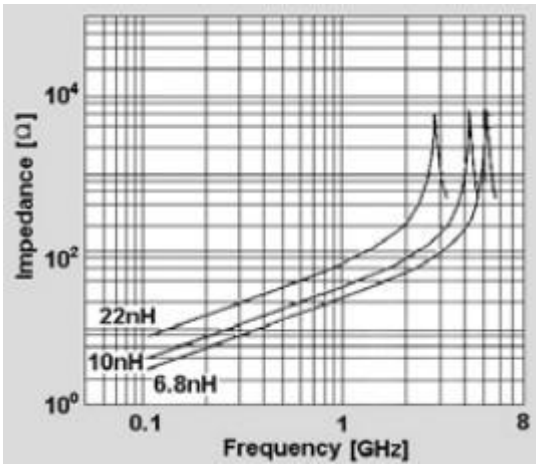
Inductance VS. Frenquency



Q Value VS. Frenquency



Impedance VS. Frenquency



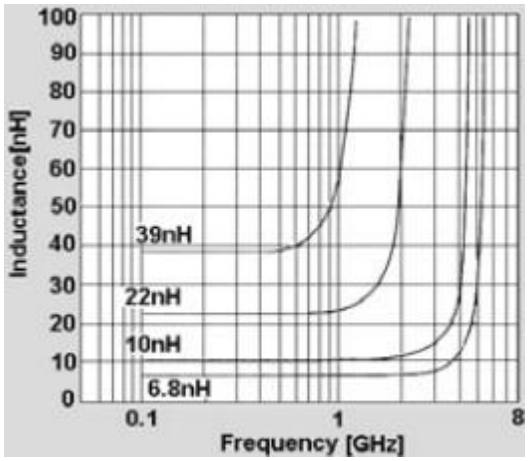
Electrical Characteristics JYHF1608(0603) Series(4000pcs/reel)

OPEARATING TEMP.-40~+85℃

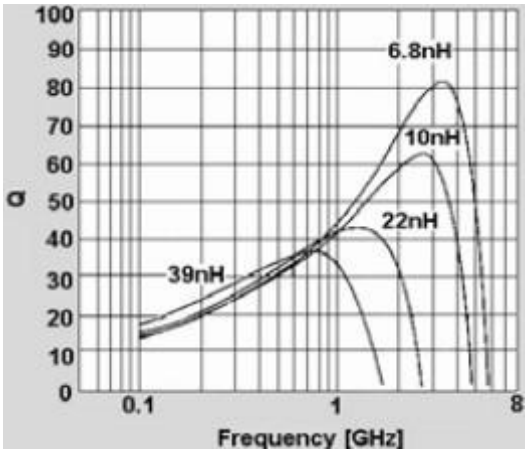
Part NO	L(nH)	L Tol	Q Min	L,Q Test Freq(MHz)	S.R.F (MHz)Min	DCR(Ω)Max	Ir(mA)Max
JYHF1608C1N5S	1.5	±0.3nH	8	100	6000	0.1	500
JYHF1608C1N8S	1.8	±0.3nH	8	100	6000	0.12	500
JYHF1608C2N2S	2.2	±0.3nH	8	100	6000	0.2	500
JYHF1608C2N7S	2.7	±0.3nH	8	100	6000	0.2	500
JYHF1608C3N3S	3.3	±0.3nH	8	100	6000	0.2	500
JYHF1608C3N9S	3.9	±0.3nH	8	100	6000	0.2	500
JYHF1608C4N7S	4.7	±0.3nH	8	100	6000	0.2	500
JYHF1608C5N6S	5.6	±0.3nH	8	100	5500	0.3	500
JYHF1608C6N8J	6.8	±5%±10%	8	100	5300	0.3	500
JYHF1608C8N2J	8.2	±5%±10%	8	100	5100	0.3	500
JYHF1608C10NJ	10	±5%±10%	8	100	4800	0.5	300
JYHF1608C12NJ	12	±5%±10%	8	100	4500	0.5	300
JYHF1608C15NJ	15	±5%±10%	8	100	4200	0.6	300
JYHF1608C18NJ	18	±5%±10%	8	100	3900	0.6	300
JYHF1608C22NJ	22	±5%±10%	8	100	3600	0.6	300
JYHF1608C27NJ	27	±5%±10%	8	100	3300	0.8	300
JYHF1608C33NJ	33	±5%±10%	8	100	3000	0.8	300
JYHF1608C39NJ	39	±5%±10%	8	100	2500	0.8	300
JYHF1608C47NJ	47	±5%±10%	8	100	2400	1	300
JYHF1608C56NJ	56	±5%±10%	8	100	2200	1	300
JYHF1608C68NJ	68	±5%±10%	8	100	1000	1	300
JYHF1608C82NJ	82	±5%±10%	8	100	800	1	300
JYHF1608CR10J	100	±5%±10%	8	100	700	1	300
JYHF1608CR12J	120	±5%±10%	8	50	600	1.2	300
JYHF1608CR15J	150	±5%±10%	8	50	500	1.4	300
JYHF1608CR18J	180	±5%±10%	8	50	400	1.6	300
JYHF1608CR22J	220	±5%±10%	8	50	350	1.8	300

CHARACTERISTICS CURVES

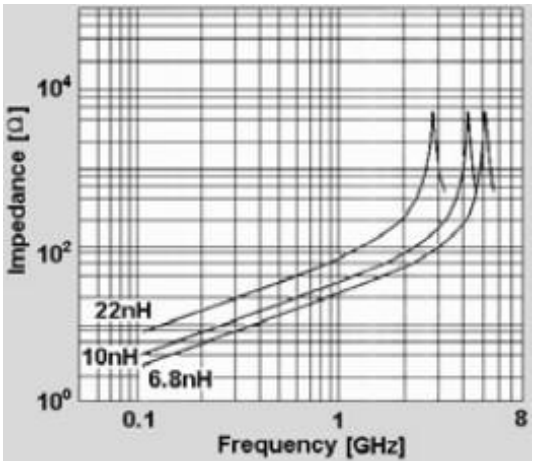
Inductance VS. Frenquency



Q Value VS. Frenquency



Impedance VS. Frenquency



Electrical Characteristics JYHF2012(0805) Series（between 1.5nH to 220nH）

(4000pcs/reel)

OPEARATING TEMP.-40~+85℃

Part NO	L(nH)	L Tol	Q Min	L,Q Test Freq(MHz)	S.R.F (MHz)Min	DCR(Ω)Max	Ir(mA)Max
JYHF2012C1N5S	1.5	±0.3nH	10	100	6000	0.1	600
JYHF2012C1N8S	1.8	±0.3nH	10	100	6000	0.1	600
JYHF2012C2N2S	2.2	±0.3nH	10	100	6000	0.1	600
JYHF2012C2N7S	2.7	±0.3nH	10	100	6000	0.1	600
JYHF2012C3N3S	3.3	±0.3nH	10	100	6000	0.13	600
JYHF2012C3N9S	3.9	±0.3nH	10	100	5400	0.15	600
JYHF2012C4N7S	4.7	±0.3nH	10	100	4500	0.2	400
JYHF2012C5N6S	5.6	±0.3nH	10	100	4000	0.23	400
JYHF2012C6N8J	6.8	±5%±10%	10	100	3650	0.25	400
JYHF2012C8N2J	8.2	±5%±10%	10	100	3000	0.28	400
JYHF2012C10NJ	10	±5%±10%	10	100	2500	0.3	300
JYHF2012C12NJ	12	±5%±10%	10	100	2450	0.35	300
JYHF2012C15NJ	15	±5%±10%	10	100	2000	0.4	300
JYHF2012C18NJ	18	±5%±10%	10	100	1750	0.45	300
JYHF2012C22NJ	22	±5%±10%	13	100	1700	0.5	300
JYHF2012C27NJ	27	±5%±10%	15	100	1550	0.55	300
JYHF2012C33NJ	33	±5%±10%	15	100	1350	0.6	300
JYHF2012C39NJ	39	±5%±10%	15	100	1300	0.65	300
JYHF2012C47NJ	47	±5%±10%	15	100	1200	0.7	300
JYHF2012C56NJ	56	±5%±10%	15	100	1150	0.75	300
JYHF2012C68NJ	68	±5%±10%	15	100	1000	0.8	300
JYHF2012C82NJ	82	±5%±10%	15	100	850	0.9	300
JYHF2012CR10J	100	±5%±10%	15	100	600	1	300
JYHF2012CR12J	120	±5%±10%	15	50	500	1.5	300
JYHF2012CR15J	150	±5%±10%	13	50	500	1.5	300
JYHF2012CR18J	180	±5%±10%	13	50	400	2.1	300
JYHF2012CR22J	220	±5%±10%	12	50	350	2.1	300

Electrical Characteristics JYHF2012(0805) Series（between 220nH to 470nH）

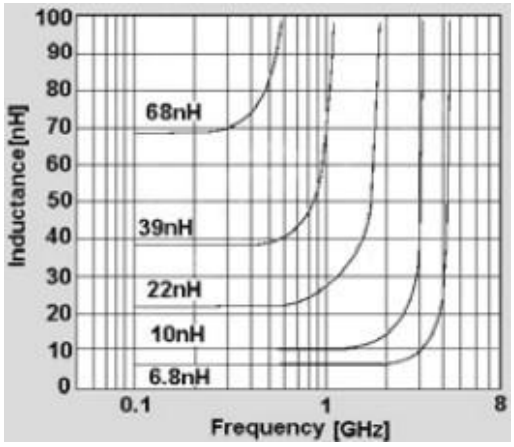
(15000pcs/reel)

OPEARATING TEMP.-40~+85℃

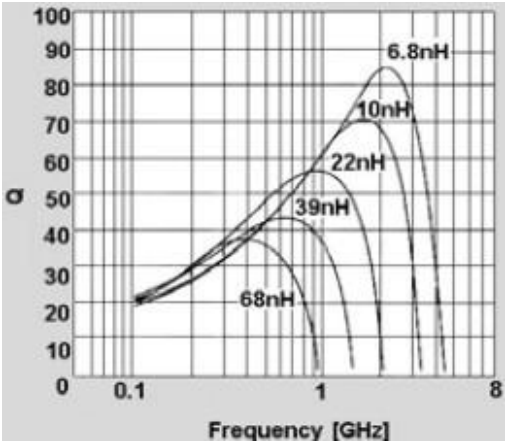
Part NO	L(nH)	L Tol	Q Min	L,Q Test Freq(MHz)	S.R.F (MHz)Min	DCR(Ω)Max	Ir(mA)Max
JYHF2012CR27J	270	±5%±10%	12	50	300	3	200
JYHF2012CR33J	330	±5%±10%	12	50	250	3	200
JYHF2012CR39J	390	±5%±10%	10	50	250	3.5	200
JYHF2012CR47J	470	±5%±10%	10	50	200	3.5	200

CHARACTERISTICS CURVES

Inductance VS. Frenquency



Q Value VS. Frenquency



Impedance VS. Frenquency