

1. High Frequency Use (Non Magnetic Core) RF, ND, NC, NA

Japan
China



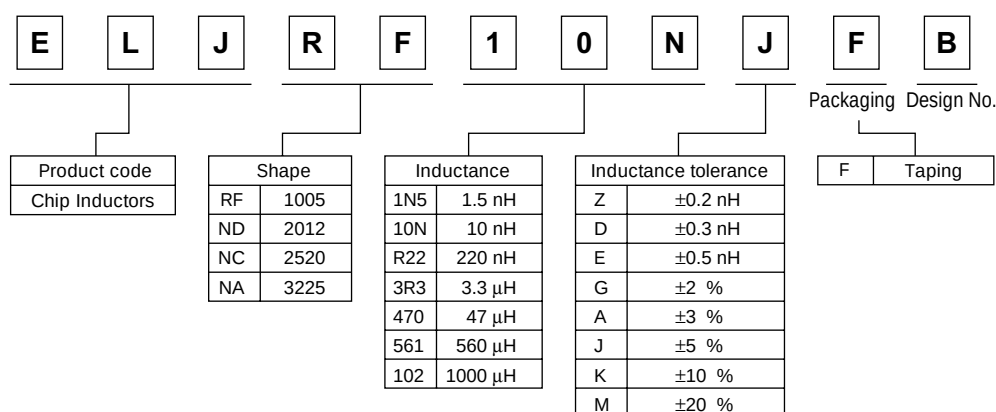
■ Features

- High Freq. use chip inductor using non magnetic core.
- Correspond to Re-flowsoldering and flow soldering.
- Wide line-up from 1005 size to 3225 size.
- Good for mounting.

■ Recommended Applications

- RF circuit for cellular phone and wireless communication equipment.

■ Explanation of Part Numbers



■ Storage condition

- Package : Normal temperature (−5 to 35 °C), normal humidity (85 %RH Max.), shall not be exposed to direct sunlight and harmful gas and care should be taken so as not to cause dew.
- Product on PWB: Temperature −20 to +85 °C

■ Storage period

- In generally, even if storage condition is good, solderability will be down cause of time progress.
Please use product within 6 months after received.
(In case of over 6 months storage period, use the product after confirmation of no abnormality of appearance and solderability.)

■ Packaging

Refer 28 ro 29 page.

■ Soldering condition

Refer 30 page.

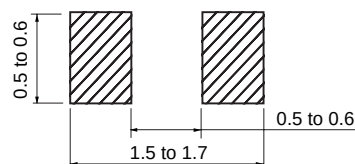
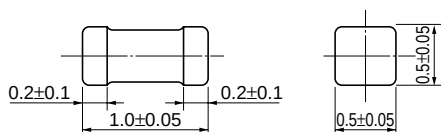
■ Caution for use

Refer 31 page.

■ RF Type 1005 (0402)

● Dimensions in mm (not to scale)

● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 10000 pcs./Reel

■ Standard Parts (E12 series)

Part No.	Inductance			Q		SRF *1 (MHz) min.	R _{DC} *2 (Ω) max.	DC Current (mA) max.
	(nH)	Tolerance (%)	Test Freq. (MHz)	min.	Test Freq. (MHz)			
ELJRF1N0□FB	1.0	D : ±0.3 nH Z : ±0.2 nH	100	8	100	6000	0.05	400
ELJRF1N2□FB	1.2					6000	0.06	400
ELJRF1N5□FB	1.5					6000	0.07	400
ELJRF1N8□FB	1.8					6000	0.08	400
ELJRF2N2□FB	2.2					6000	0.09	400
ELJRF2N7□FB	2.7					5500	0.10	400
ELJRF3N3□FB	3.3					5500	0.12	400
ELJRF3N9□FB	3.9					5200	0.15	360
ELJRF4N7□FB	4.7					4800	0.17	360
ELJRF5N6□FB	5.6					4600	0.19	340
ELJRF6N8□FB	6.8	J : ±5 % G : ±2 %	100	8	100	4000	0.30	320
ELJRF8N2□FB	8.2					3500	0.35	320
ELJRF10N□FB	10					2800	0.41	320
ELJRF12N□FB	12					2800	0.45	320
ELJRF15N□FB	15					2500	0.60	240
ELJRF18N□FB	18					2200	0.70	240
ELJRF22N□FB	22					2000	0.80	200
ELJRF27N□FB	27					1800	1.20	200
ELJRF33N□FB	33					1800	1.40	170
ELJRF39N□FB	39					1800	1.70	150
ELJRF47N□FB	47					1800	2.10	140
ELJRF56N□FB	56					1500	2.50	130
ELJRF68N□FB	68					1500	4.00	120
ELJRF82N□FB	82					1400	4.50	110
ELJRFR10□FB	100					1200	5.50	90

□ : Symbol of Tolerance *1 : Self Resonant Frequency *2 : DC Resistance

■ Standard Parts (E24 series)

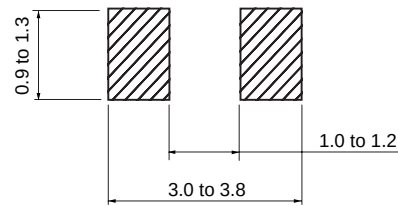
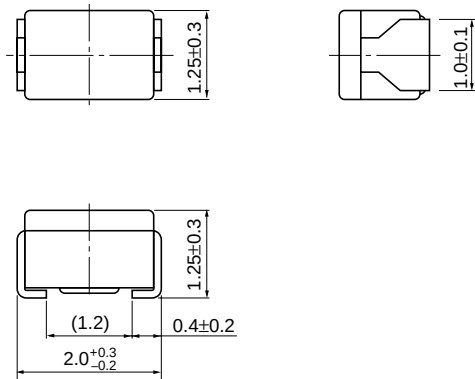
Part No.	Inductance			Q		SRF *1 (MHz) min.	R _{DC} *2 (Ω) max.	DC Current (mA) max.
	(nH)	Tolerance (%)	Test Freq. (MHz)	min.	Test Freq. (MHz)			
ELJRF2N0□FB	2.0	D : ±0.3 nH Z : ±0.2 nH	100	8	100	6000	0.08	400
ELJRF2N4□FB	2.4					6000	0.09	400
ELJRF3N0□FB	3.0					5500	0.11	400
ELJRF3N6□FB	3.6					5300	0.14	380
ELJRF4N3□FB	4.3					5000	0.16	360
ELJRF5N1□FB	5.1					4700	0.18	350
ELJRF6N2□FB	6.2	J : ±5 % G : ±2 %	100	8	100	4300	0.25	330
ELJRF7N5□FB	7.5					3700	0.33	320
ELJRF9N1□FB	9.1					3100	0.38	320
ELJRF11N□FB	11					2800	0.43	320
ELJRF13N□FB	13					2600	0.53	280
ELJRF16N□FB	16					2300	0.65	240
ELJRF20N□FB	20					2100	0.75	220
ELJRF24N□FB	24					1900	1.00	200
ELJRF30N□FB	30					1800	1.30	190
ELJRF36N□FB	36					1800	1.60	160
ELJRF43N□FB	43					1800	1.90	150

□ : Symbol of Tolerance *1 : Self Resonant Frequency *2 : DC Resistance

■ ND Type 2012 (0805)

● Dimensions in mm (not to scale)

● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 3000 pcs./Reel

■ Standard Parts

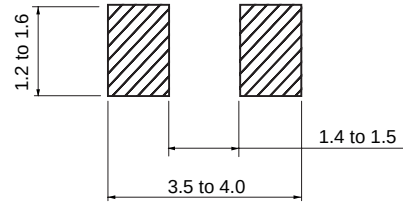
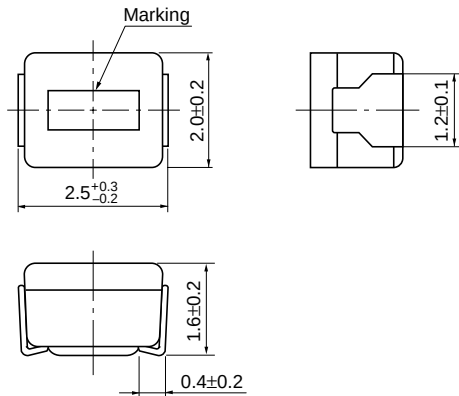
Part No.	Inductance			Q		SRF *1 (MHz) min.	R _{DC} *2 (Ω) max.	DC Current (mA) max.
	(nH)	Tolerance (%)	Test Freq. (MHz)	min.	Test Freq. (MHz)			
ELJND10N□F	10	K : ±10 %	100	10	100	3300	0.18	540
ELJND12N□F	12					3300	0.24	535
ELJND15N□F	15			12		3000	0.24	520
ELJND18N□F	18					3000	0.29	480
ELJND22N□F	22			15		2600	0.29	465
ELJND27N□F	27					2500	0.34	455
ELJND33N□F	33	K : ±10 % or J : ± 5 %	100	15	100	2050	0.39	395
ELJND39N□F	39					2000	0.41	390
ELJND47N□F	47					1650	0.46	385
ELJND56N□F	56					1550	0.51	360
ELJND68N□F	68					1450	0.57	340
ELJND82N□F	82					1100	0.63	330
ELJNDR10□F	100		25.2	8	25.2	800	0.86	285
ELJNDR12□F	120					600	0.99	275
ELJNDR15□F	150			10		600	1.47	230
ELJNDR18□F	180					600	1.61	195
ELJNDR22□F	220					500	1.84	170
ELJNDR27□F	270					300	1.95	165
ELJNDR33□F	330	200				2.16	160	
ELJNDR39□F	390	150				2.37	150	
ELJNDR47□F	470	150				2.56	145	
ELJNDR56□F	560	100				2.69	140	
ELJNDR68□F	680	100	3.02	130				
ELJNDR82□F	820	80	3.38	125				
ELJND1R0□F	1000		7.96	8	7.96	80	3.88	120

□ : Symbol of Tolerance *1 : Self Resonant Frequency *2 : DC Resistance

■ NC Type 2520 (1008)

● Dimensions in mm (not to scale)

● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 2000 pcs./Reel

■ Standard Parts

Part No.	Inductance			Q		SRF *1 (MHz) min.	R _{DC} *2 (Ω) max.	DC Current (mA) max.
	(nH)	Tolerance (%)	Test Freq. (MHz)	min.	Test Freq. (MHz)			
ELJNC10N□F	10	K : ±10 %	100	10	100	2500	0.32	280
ELJNC12N□F	12					2200	0.34	270
ELJNC15N□F	15					1800	0.38	255
ELJNC18N□F	18					1550	0.40	250
ELJNC22N□F	22					1350	0.43	240
ELJNC27N□F	27					1150	0.47	230
ELJNC33N□F	33	K : ±10 % or J : ± 5 %	100	15	100	1000	0.51	220
ELJNC39N□F	39					890	0.55	215
ELJNC47N□F	47					770	0.59	205
ELJNC56N□F	56					670	0.63	200
ELJNC68N□F	68					590	0.68	190
ELJNC82N□F	82					520	0.73	185
ELJNCR10□F	100		25.2	10	25.2	460	0.80	175
ELJNCR12□F	120					400	0.87	170
ELJNCR15□F	150					340	0.98	160
ELJNCR18□F	180					300	1.05	155
ELJNCR22□F	220					260	1.15	145
ELJNCR27□F	270					230	1.25	140
ELJNCR33□F	330					200	1.37	135
ELJNCR39□F	390					180	1.47	130
ELJNCR47□F	470					160	1.58	125
ELJNCR56□F	560					145	1.70	120
ELJNCR68□F	680					130	1.85	110
ELJNCR82□F	820					100	2.10	100

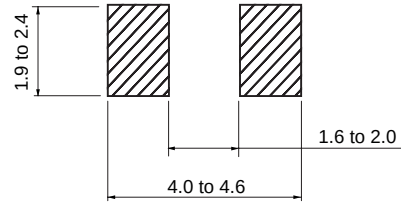
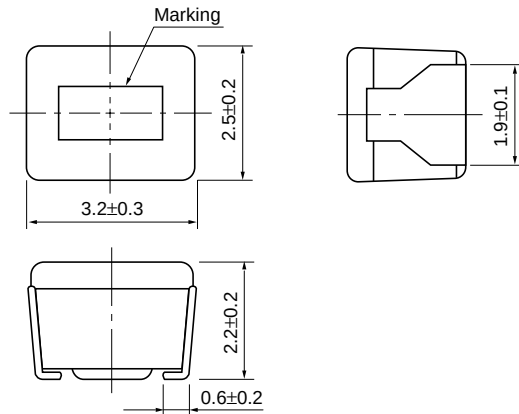
□ : Symbol of Tolerance

*1 : Self Resonant Frequency *2 : DC Resistance

■ NA Type 3225 (1210)

● Dimensions in mm (not to scale)

● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 2000 pcs./Reel

■ Standard Parts

Part No.	Inductance			Q		SRF *1 (MHz) min.	R _{DC} *2 (Ω) max.	DC Current (mA) max.		
	(nH)	Tolerance (%)	Test Freq. (MHz)	min.	Test Freq. (MHz)					
ELJNA47N□F	47	M : ±20 %	100	10	100	680	0.20	450		
ELJNA56N□F	56					600	0.22	420		
ELJNA68N□F	68					540	0.25	400		
ELJNA82N□F	82					500	0.27	380		
ELJNAR10□F	100					450	0.30	360		
ELJNAR12□F	120		25.2		25.2	400	0.67	240		
ELJNAR15□F	150					350	0.72	230		
ELJNAR18□F	180					320	0.81	220		
ELJNAR22□F	220	280	0.90			210				
ELJNAR27□F	270	250	1.0			200				
ELJNAR33□F	330	K : ±10 % or J : ± 5 %	1			13	7.96	220	1.1	190
ELJNAR39□F	390							200	1.2	180
ELJNAR47□F	470							180	1.4	175
ELJNAR56□F	560				160			1.5	170	
ELJNAR68□F	680				150			1.7	155	
ELJNAR82□F	820				135			1.9	145	
ELJNA1R0□F	1000			120	2.1			125		
ELJNA1R2□F	1200			110	2.3			120		
ELJNA1R5□F	1500	95		2.7	115					
ELJNA1R8□F	1800	85		3.0	110					
ELJNA2R2□F	2200	80		3.2	110					
ELJNA2R7□F	2700	70		3.6	105					
ELJNA3R3□F	3300	62		4.2	100					
ELJNA3R9□F	3900	57		4.4	95					
ELJNA4R7□F	4700	52		7.7	70					
ELJNA5R6□F	5600	46		8.7	65					
ELJNA6R8□F	6800	42	10	60						
ELJNA8R2□F	8200	38	11	60						

□ : Symbol of Tolerance *1 : Self Resonant Frequency *2 : DC Resistance

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.