

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

Japan



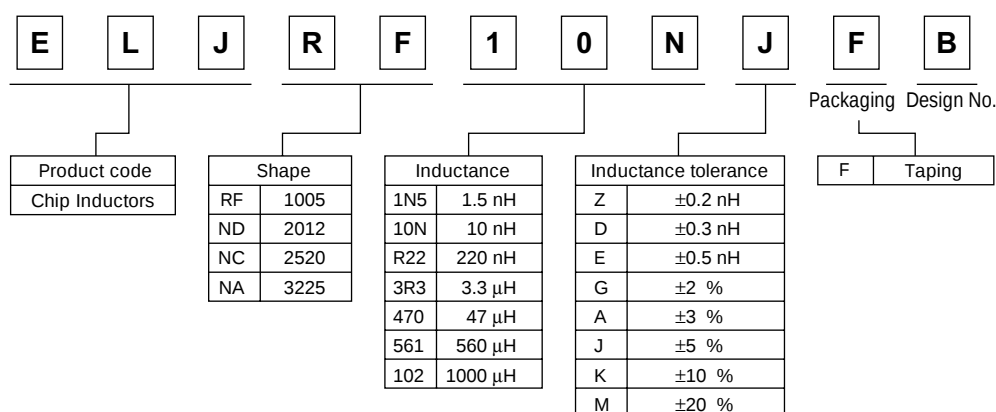
■ Features

- High frequency capability due to its non magnetic core.
- Capable of being Re-flow or flow soldered.
- Wide line-up from 1005 to 3225 case sizes.
- RoHS Compliant.

■ Recommended Applications

- RF circuitry for cellular phones and wireless communication equipment.

■ Explanation of Part Numbers



■ Storage conditions

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

■ Storage period

- Solderability may be reduced due to the conditions of high temperature and high humidity which causes the oxidation of tin-plated terminals. Even if storage conditions are within specified limits, solderability may be reduced with the passage of time. Therefore, please control the storage conditions and try to use the product within 6 months of receipt.

■ Packaging Refer 28 ro 29 page.

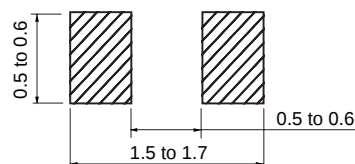
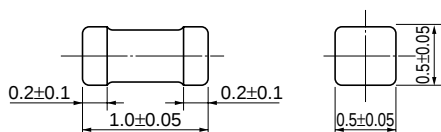
■ Soldering condition Refer 30 page.

■ Precautions 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	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 %	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)

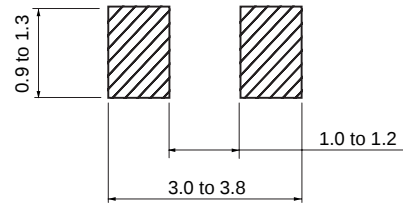
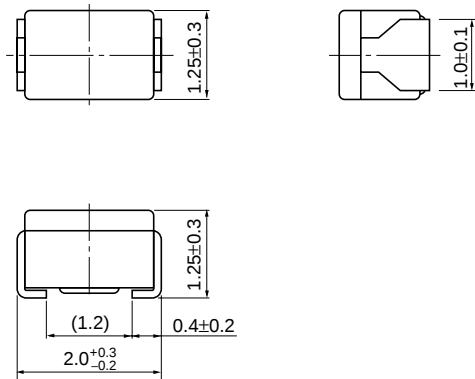
Part No.	Inductance			Q		SRF *1 (MHz) min.	R _{DC} *2 (Ω) max.	DC Current (mA) max.
	(nH)	Tolerance (%)	Test Freq. (MHz)	min.	Test Freq. (MHz)			
ELJRF2N0□FB	2.0	D : ±0.3 nH	100	8	100	6000	0.08	400
ELJRF2N4□FB	2.4					6000	0.09	400
ELJRF3N0□FB	3.0					5500	0.11	400
ELJRF3N6□FB	3.6					5300	0.14	380
ELJRF4N3□FB	4.3					5000	0.16	360
ELJRF5N1□FB	5.1					4700	0.18	350
ELJRF6N2□FB	6.2	J : ±5 %	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

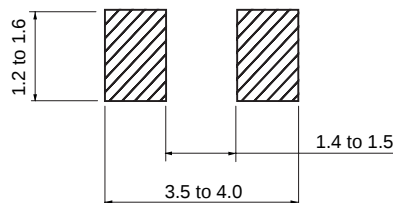
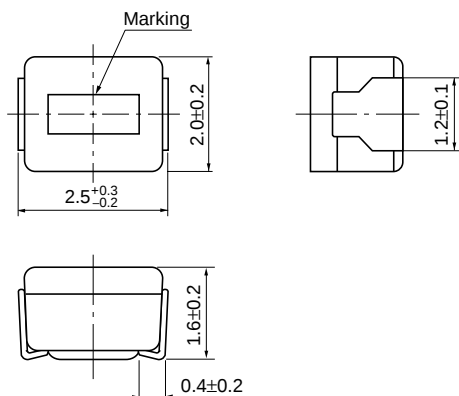
Part No.	Inductance			Q		SRF *1 (MHz) min.	R _{DC} *2 (Ω) max.	DC Current (mA) max.	
	(nH)	Tolerance (%)	Test Freq. (MHz)	min.	Test Freq. (MHz)				
ELJND10N□F	10	K : ±10 %	100	10	100	3300	0.18	540	
ELJND12N□F	12					3300	0.24	535	
ELJND15N□F	15			12		3000	0.24	520	
ELJND18N□F	18					3000	0.29	480	
ELJND22N□F	22			15		2600	0.29	465	
ELJND27N□F	27					2500	0.34	455	
ELJND33N□F	33	K : ±10 % or J : ± 5 %	25.2	15		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

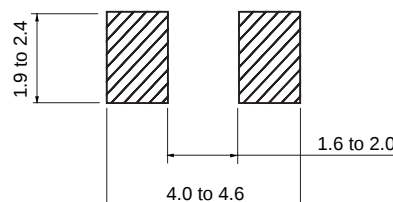
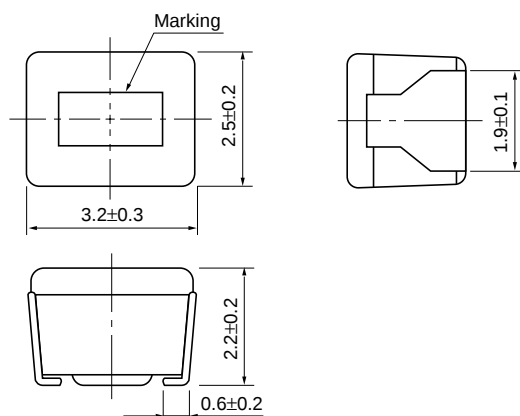
Part No.	Inductance			Q		SRF *1 (MHz) min.	R _{DC} *2 (Ω) max.	DC Current (mA) max.
	(nH)	Tolerance (%)	Test Freq. (MHz)	min.	Test Freq. (MHz)			
ELJNC10N□F	10	K : ±10 %	100	10	100	2500	0.32	280
ELJNC12N□F	12					2200	0.34	270
ELJNC15N□F	15					1800	0.38	255
ELJNC18N□F	18					1550	0.40	250
ELJNC22N□F	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 %	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			J : ± 5 %	1		13	7.96	120	2.1
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.