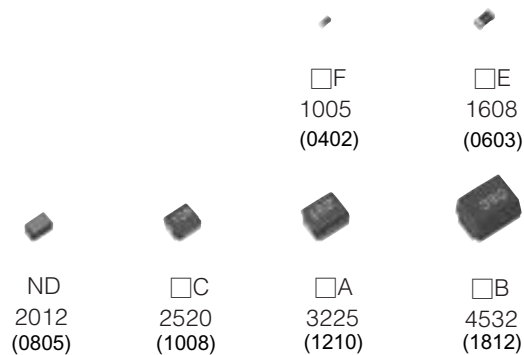


Chip Inductors

Japan

Series: **Chip**
Type: **F, E,
D, C, A, B**



Non wound and wire wound type chip inductors for automatic and high-density mounting

Industrial Property : Patents 6 (pending)

■ Features

- High Q
- Good for mounting
- Wide availability range (1.0 nH to 1000 μ H)
- Stable L -value in any mounting direction(Non winding type)

■ Recommended Applications

- Portable telephones, Wireless Communication equipment (W-LAN, BT), PDA, Camcorder, DSC, Various module, HIC, TV, VTR, PC peripherals.

■ Explanation of Part Numbers

Example of Part Number Build:

1 2 3
E **L** **J**
Product Code

* Q Min. - Please check the each specification

4 5 6 7 8
F **A** **2** **2** **1**
Type Nominal Inductance

** SRF (Self-Resonant Frequency)

9 10 11
J **F** **□**
Tolerance Packaging Optional***

Item	Laser-Cut		Wire Wound Types			
	Styles					
Types	F 1005 (0402)	E 1608 (0603)	D 2012 (0805)	C 2520 (1008)	A 3225 (1210)	B 4532 (1812)
Non Magnetic Core	RF	RE	ND	NC	NA	—
NonMagneticCore(HighQ)	QF	—	—	—	—	—
General Use	—	—	—	FC	FA	FB
Magnetic Shield	—	—	—	—	SA	—
High Current	PF	PE	—	PC	PA	PB
High Current, very low DCR	—	—	—	—	EA	—

Size unit: mm (inch)

Code	Value
2N2 -->	2.2 nH
22N -->	22 nH
R22 -->	0.22 μ H
2R2 -->	2.2 μ H
220 -->	22 μ H
221 -->	220 μ H
102 -->	1000 μ H

Code	Value
Z: $\pm$	0.2 nH
D: $\pm$	0.3 nH
E: $\pm$	0.5 nH
G: $\pm$	2 %
A: $\pm$	3 %
J: $\pm$	5 %
K: $\pm$	10 %
M: $\pm$	20 %

F Tape & Reel

***Note: Part Number position #11 is an optional factory designation.

■ Inductance, Size Guide

● High Frequency Equipment

Item	Size	Type	L VALUE							
			0.001	0.01	0.1	1.0	10	100	(μH)	1000
Laser Cut	1005 (0402) RF	Non Magnetic Core	D,Z J,Z J,G						Tolerance Z : ± 0.2 nH D : ± 0.3 nH E : ± 0.5 nH G : ± 2 % A : ± 3 % J : ± 5 % K : ± 10 % M : ± 20 %	
	1005 (0402) QF	Non Magnetic Core High-Q	D,Z J,Z J,G							
	1005 (0402) PF	High power	D,J							
	1608 (0603) RE	Non Magnetic Core	D,Z J,Z J,G							
	1608 (0603) PE	High power	K							

● General Equipment

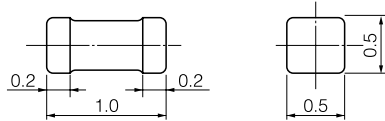
Item	Size	Type	L VALUE							
			0.001	0.01	0.1	1.0	10	100	(μH)	1000
Wire wound type	2012 (0805) ND	Non Magnetic Core		K J,K						
	2520 (1008) NC	Non Magnetic Core		K J,K						
	2520 (1008) FC	General Use			K,M J,K					
	2520 (1008) PC	High power				M K				
	3225 (1210) NA	Non Magnetic Core		M K J						
	3225 (1210) FA	General Use			K,M J,K					
	3225 (1210) SA	Shield	Tolerance D : ± 0.3 nH E : ± 0.5 nH G : ± 2 % A : ± 3 % J : ± 5 % K : ± 10 % M : ± 20 %				K			
	3225 (1210) PA	High power					M K			
	3225 (1210) EA	Low DC resistance					M K			
	4532 (1812) FB	General Use					M K,M J,K			
	4532 (1812) PB	High power						K		

Size : mm (inch)

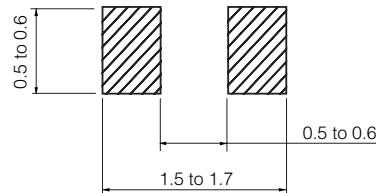
1. Non Magnetic Core Types RF, RE, ND, NC, NA

■ Type 1005(0402)RF

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 10000 pcs./Reel

■ Examples

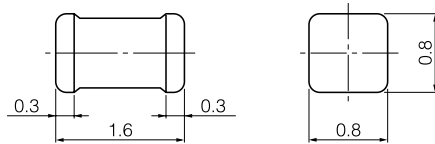
Part No.*3	Inductance		Q min.	L,Q Test Freq. (MHz)	SRF *1 (MHz)min.	DCR *2 (Ω)max.	DC Current (mA)max.
	(nH)	Tolerance					
ELJRF1N0D/ZF2	1.0	±0.3 nH	8	100	6000	0.05	400
ELJRF1N2D/ZF2	1.2				6000	0.06	400
ELJRF1N5D/ZF2	1.5				6000	0.07	400
ELJRF1N8D/ZF2	1.8				6000	0.08	400
ELJRF2N2D/ZF2	2.2				6000	0.09	400
ELJRF2N7D/ZF2	2.7				5500	0.10	400
ELJRF3N3D/ZF2	3.3				5500	0.12	400
ELJRF3N9D/ZF2	3.9				5200	0.15	360
ELJRF4N7D/ZF2	4.7				4800	0.17	360
ELJRF5N6D/ZF2	5.6				4600	0.19	340
ELJRF6N8J/ZF2	6.8	± 5 %	8	100	4000	0.30	320
ELJRF8N2J/ZF2	8.2				3500	0.35	320
ELJRF10NJ/GF2	10.0				2800	0.41	320
ELJRF12NJ/GF2	12.0				2800	0.45	320
ELJRF15NJ/GF2	15.0				2500	0.60	240
ELJRF18NJ/GF2	18.0				2200	0.70	240
ELJRF22NJ/GF2	22.0				2000	0.80	200
ELJRF27NJ/GF2	27.0				1800	1.20	200
ELJRF33NJ/GF2	33.0				1800	1.40	170
ELJRF39NJ/GF2	39.0				1800	1.70	150
ELJRF47NJ/GF2	47.0	± 2 %	8	100	1800	2.10	140
ELJRF56NJ/GF2	56.0				1500	2.50	130
ELJRF68NJ/GF2	68.0				1500	4.00	120
ELJRF82NJ/GF2	82.0				1400	4.50	110
ELJRF10J/GF2	100.0				1200	5.50	90
ELJRF3N6D/ZF2	3.6				5300	0.14	380
ELJRF4N3D/ZF2	4.3				5000	0.16	360
ELJRF5N1D/ZF2	5.1				4700	0.18	350
ELJRF6N2D/ZF2	6.2				4300	0.25	330
ELJRF7N5J/ZF2	7.5				3700	0.33	320
ELJRF9N1J/ZF2	9.1	3100	0.38	320			
ELJRF11NJ/GF2	11.0	± 5 %	8	100	2800	0.43	320
ELJRF13NJ/GF2	13.0				2600	0.53	280
ELJRF16NJ/GF2	16.0				2300	0.65	240
ELJRF20NJ/GF2	20.0				2100	0.75	220
ELJRF24NJ/GF2	24.0				1900	1.00	200
ELJRF30NJ/GF2	30.0				1800	1.30	190
ELJRF36NJ/GF2	36.0				1800	1.60	160
ELJRF43NJ/GF2	43.0				1800	1.90	150

*1 : Self Resonant Frequency *2 : DC Resistance *3 Lead-Free P/Ns have an "FB" suffix, rather than 'F2'

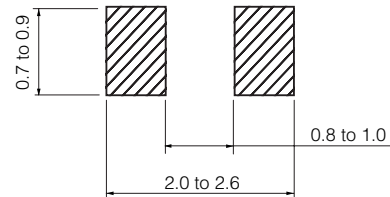
Design and specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use.
Whenever a doubt about safety arises from this product, please contact us immediately for technical consultation.

■ Type 1608(0603)RE

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 3000 pcs./Reel

■ Examples

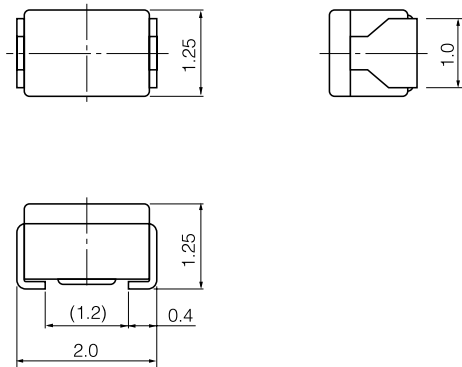
Part No. *3	Inductance		Q min.	L,Q Test Freq. (MHz)	SRF *1 (MHz)min.	DCR *2 (Ω)max.	DC Current (mA)max.	
	(nH)	Tolerance						
ELJRE1N0D/ZF2	1.0	±0.3 nH	7	100	6000	0.05	500	
ELJRE1N2D/ZF2	1.2				6000	0.06	500	
ELJRE1N5D/ZF2	1.5		8		6000	0.07	500	
ELJRE1N8D/ZF2	1.8				6000	0.08	500	
ELJRE2N2D/ZF2	2.2				6000	0.09	500	
ELJRE2N7D/ZF2	2.7		±0.2 nH		6000	0.10	500	
ELJRE3N3D/ZF2	3.3	9			5500	0.12	500	
ELJRE3N9J/ZF2	3.9				5500	0.15	450	
ELJRE4N7J/ZF2	4.7				4800	0.17	450	
ELJRE5N6J/ZF2	5.6				4600	0.18	430	
ELJRE6N8J/ZF2	6.8	±5 %	10		3550	0.20	430	
ELJRE8N2J/ZF2	8.2				3500	0.28	400	
ELJRE10NJ/GF2	10.0				2800	0.32	400	
ELJRE12NJ/GF2	12.0				2800	0.35	400	
ELJRE15NJ/GF2	15.0				2500	0.41	350	
ELJRE18NJ/GF2	18.0				2300	0.45	350	
ELJRE22NJ/GF2	22.0				2000	0.50	300	
ELJRE27NJ/GF2	27.0				2000	0.55	300	
ELJRE33NJ/GF2	33.0				1800	0.60	300	
ELJRE39NJ/GF2	39.0				11	1800	0.80	300
ELJRE47NJ/GF2	47.0					1800	0.95	250
ELJRE56NJ/GF3	56.0					1800	1.20	250
ELJRE68NJ/GF3	68.0				12	1500	1.30	250
ELJRE82NJ/GF3	82.0					1500	1.50	250
ELJRER10J/GF3	100.0	±2 %	5		1300	1.80	200	
ELJRER12J/GF3	120.0				1200	3.00	130	
ELJRER15J/GF3	150.0				4	1100	4.50	100
ELJRER18J/GF3	180.0					1000	6.50	80
ELJRER22J/GF3	220.0	±5 %	10		900	7.50	70	
ELJRE3N6D/ZF2	3.6			±0.2 nH	9	5500	0.14	500
ELJRE4N3J/ZF2	4.3					5100	0.16	450
ELJRE5N1J/ZF2	5.1					4700	0.18	450
ELJRE6N2J/ZF2	6.2					4000	0.19	450
ELJRE7N5J/ZF2	7.5					3500	0.24	430
ELJRE9N1J/ZF2	9.1			±2 %	10	3100	0.30	430
ELJRE11NJ/GF2	11.0					2800	0.33	400
ELJRE13NJ/GF2	13.0					2600	0.38	400
ELJRE16NJ/GF2	16.0					2400	0.43	400
ELJRE20NJ/GF2	20.0					2100	0.48	350
ELJRE24NJ/GF2	24.0					2000	0.53	300
ELJRE30NJ/GF2	30.0					1900	0.58	300
ELJRE36NJ/GF2	36.0					1800	0.70	300
ELJRE43NJ/GF2	43.0	1800	0.87			300		

*1 : Self Resonant Frequency *2 : DC Resistance *3 Lead-Free P/Ns have an "FA" suffix rather than 'F2' or 'F3'

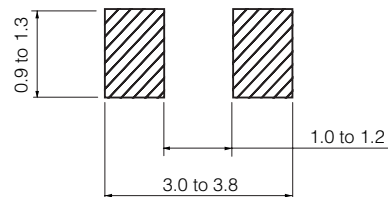
Design and specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use.
Whenever a doubt about safety arises from this product, please contact us immediately for technical consultation.

■ Type 2012(0805)ND

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

- 3000 pcs./Reel

■ Examples

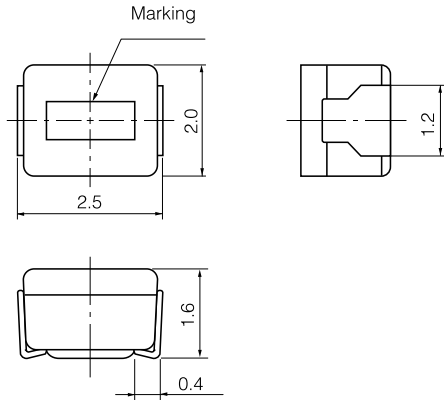
Part No.	Inductance		Q min.	L , Q Test Freq. (MHz)	Q Typical (800 MHz)	SRF *1 (MHz)min.	DCR *2 (Ω)max.	DC Current (mA)max.	
	(nH)	Tolerance							
ELJND10NKF	10	± 10 %	10	100	72	3300	0.18	540	
ELJND12NKF	12		12		67	3300	0.24	535	
ELJND15NKF	15				73	3000	0.24	520	
ELJND18NKF	18				74	3000	0.29	480	
ELJND22NKF	22		15		75	2600	0.29	465	
ELJND27NKF	27				73	2500	0.34	455	
ELJND33NJ/KF	33	80			2050	0.39	395		
ELJND39NJ/KF	39	72			2000	0.41	390		
ELJND47NJ/KF	47	71			1650	0.46	385		
ELJND56NJ/KF	56	± 5 % ± 10 %			15	63	1550	0.51	360
ELJND68NJ/KF	68		57			1450	0.57	340	
ELJND82NJ/KF	82		56			1100	0.63	330	
ELJNDR10J/KF	100		8			51	800	0.86	285
ELJNDR12J/KF	120					32	600	0.99	275
ELJNDR15J/KF	150		10	25.2		36	600	1.47	230
ELJNDR18J/KF	180				34	600	1.61	195	
ELJNDR22J/KF	220				—	500	1.84	170	
ELJNDR27J/KF	270				—	300	1.95	165	
ELJNDR33J/KF	330				—	200	2.16	160	
ELJNDR39J/KF	390				—	150	2.37	150	
ELJNDR47J/KF	470				—	150	2.56	145	
ELJNDR56J/KF	560				—	100	2.69	140	
ELJNDR68J/KF	680				—	100	3.02	130	
ELJNDR82J/KF	820				—	80	3.38	125	
ELJND1R0J/KF	1000		8	7.96	—	80	3.88	120	

*1 : Self Resonant Frequency *2 : DC Resistance

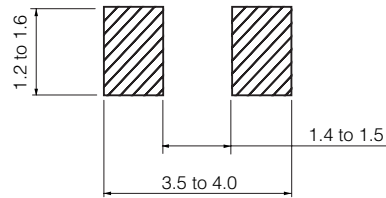
Design and specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use.
Whenever a doubt about safety arises from this product, please contact us immediately for technical consultation.

■ Type 2520(1008)NC

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

- 2000 pcs./Reel

■ Examples

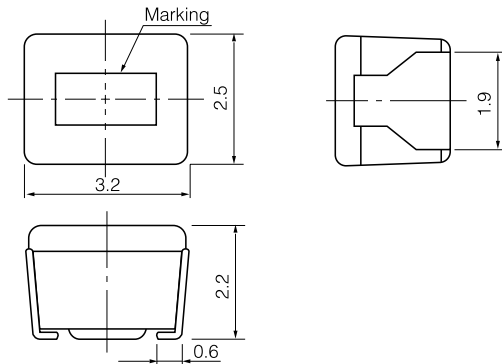
Part No.	Inductance		Q min.	L , Q Test Freq. (MHz)	SRF *1 (MHz)min.	DCR *2 (Ω)max.	DC Current (mA)max.
	(nH)	Tolerance					
ELJNC10NKF	10	±10 %	10	100	2500	0.32	280
ELJNC12NKF	12				2200	0.34	270
ELJNC15NKF	15				1800	0.38	255
ELJNC18NKF	18				1550	0.40	250
ELJNC22NKF	22				1350	0.43	240
ELJNC27NKF	27				1150	0.47	230
ELJNC33NK/JF	33	±10 % ± 5 %	15		1000	0.51	220
ELJNC39NK/JF	39				890	0.55	215
ELJNC47NK/JF	47				770	0.59	205
ELJNC56NK/JF	56				670	0.63	200
ELJNC68NK/JF	68				590	0.68	190
ELJNC82NK/JF	82				520	0.73	185
ELJNCR10K/JF	100		10	25.2	460	0.80	175
ELJNCR12K/JF	120				400	0.87	170
ELJNCR15K/JF	150				340	0.98	160
ELJNCR18K/JF	180				300	1.05	155
ELJNCR22K/JF	220				260	1.15	145
ELJNCR27K/JF	270				230	1.25	140
ELJNCR33K/JF	330	200			1.37	135	
ELJNCR39K/JF	390	180			1.47	130	
ELJNCR47K/JF	470	160			1.58	125	
ELJNCR56K/JF	560	145			1.70	120	
ELJNCR68K/JF	680	130			1.85	110	
ELJNCR82K/JF	820	100			2.10	100	

*1 : Self Resonant Frequency *2 : DC Resistance

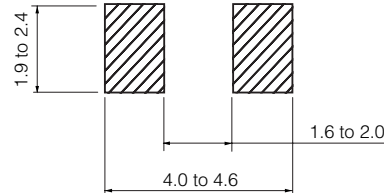
Design and specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use.
Whenever a doubt about safety arises from this product, please contact us immediately for technical consultation.

■ Type 3225(1210)NA

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

- 2000 pcs./Reel

■ Examples

Part No.	Inductance			Q		SRF *1 (MHz)min.	DCR *2 (Ω)max.	DC Current (mA)max.				
	(μH)	Freq. (MHz)	Tolerance	min.	Freq. (MHz)							
ELJNA47NMF	0.047	100	±20 %	10	100	680	0.20	450				
ELJNA56NMF	0.056					600	0.22	420				
ELJNA68NMF	0.068					540	0.25	400				
ELJNA82NMF	0.082					500	0.27	380				
ELJNAR10MF	0.100					450	0.30	360				
ELJNAR12MF	0.120	25.2		10		400	0.67	240				
ELJNAR15MF	0.150					350	0.72	230				
ELJNAR18MF	0.180					320	0.81	220				
ELJNAR22KF	0.220		±10 %		25.2	280	0.90	210				
ELJNAR27KF	0.270					250	1.00	200				
ELJNAR33KF	0.330					220	1.10	190				
ELJNAR39KF	0.390					200	1.20	180				
ELJNAR47KF	0.470					180	1.40	175				
ELJNAR56KF	0.560					160	1.50	170				
ELJNAR68KF	0.680					150	1.70	155				
ELJNAR82KF	0.820					135	1.90	145				
ELJNA1R0JF	1.000					1.0		13	7.96	120	2.10	125
ELJNA1R2JF	1.200									110	2.30	120
ELJNA1R5JF	1.500	95	2.70	115								
ELJNA1R8JF	1.800	85	3.00	110								
ELJNA2R2JF	2.200	80	3.20	110								
ELJNA2R7JF	2.700	70	3.60	105								
ELJNA3R3JF	3.300	62	4.20	100								
ELJNA3R9JF	3.900	57	4.40	95								
ELJNA4R7JF	4.700	52	7.70	70								
ELJNA5R6JF	5.600	46	8.70	65								
ELJNA6R8JF	6.800	42	10.00	60								
ELJNA8R2JF	8.200					38	11.00	60				

*1 : Self Resonant Frequency *2 : DC Resistance

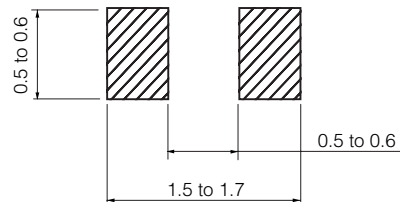
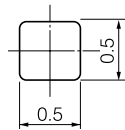
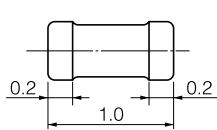
Design and specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use.
Whenever a doubt about safety arises from this product, please contact us immediately for technical consultation.

2. Type Non Wound (High-Q) QF

■ Type 1005(0402)QF

● Dimensions in mm (not to scale)

● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 10000 pcs./Reel

■ Examples

Example

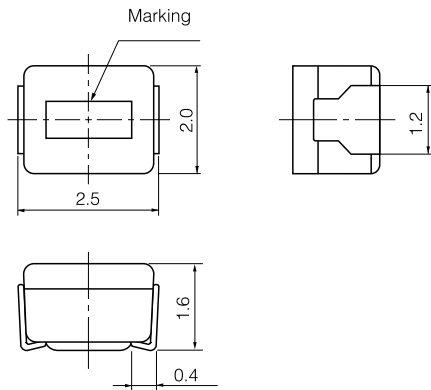
Part No.	Inductance			Q		SRF *1 (MHz)min.	DCR *2 (Ω)max.	DC Current (mA)max.					
	(μH)	Tolerance	Freq. (MHz)	100 MHz min.	800 MHz typ.								
ELJQF1N0D/ZF	1.0	±0.3 nH	±0.2 nH	100	10	41	6000	0.05	400				
ELJQF1N2D/ZF	1.2						6000	0.06	400				
ELJQF1N5D/ZF	1.5					40	6000	0.07	400				
ELJQF1N8D/ZF	1.8						6000	0.08	400				
ELJQF2N2D/ZF	2.2						6000	0.09	400				
ELJQF2N7D/ZF	2.7					39	5500	0.10	400				
ELJQF3N3D/ZF	3.3						5500	0.12	400				
ELJQF3N9D/ZF	3.9						5200	0.15	360				
ELJQF4N7D/ZF	4.7					±5 %	±2 %	100	10	38	4800	0.17	360
ELJQF5N6D/ZF	5.6										4600	0.19	340
ELJQF6N8J/ZF	6.8	4000	0.30	320									
ELJQF8N2J/ZF	8.2	3500	0.35	320									
ELJQF10NJ/GF	10.0	36	2800	0.41	320								
ELJQF12NJ/GF	12.0		2800	0.45	320								
ELJQF15NJ/GF	15.0		2500	0.60	240								
ELJQF18NJ/GF	18.0	35	2200	0.70	240								
ELJQF22NJ/GF	22.0		2200	0.80	200								
ELJQF27NJ/GF	27.0		1800	1.20	200								
ELJQF33NJ/GF	33.0	35	1800	1.40	170								
ELJQF39NJ/GF	39.0		1800	1.70	150								

*1 : Self Resonant Frequency *2 : DC Resistance

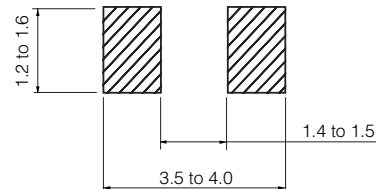
3. Normal Types FC, FA, FB

■ Type 2520(1008)FC

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

- 2000 pcs./Reel

■ Examples

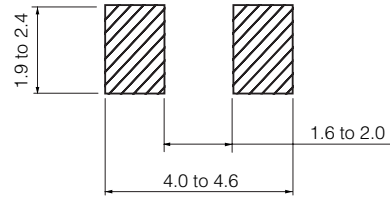
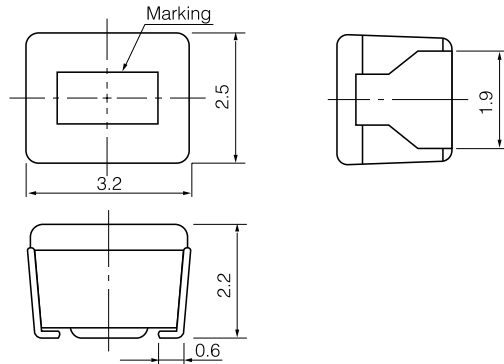
Part No.	Inductance		Q min.	L , Q Test Freq. (MHz)	SRF * ¹ (MHz)min.	DCR * ² (Ω)max.	DC Current (mA)max.
	(μH)	Tolerance					
ELJFCR22M/KF	0.22	±20 % ±10 %	25	25.2	230	0.70	190
ELJFCR27M/KF	0.27				210	0.75	180
ELJFCR33M/KF	0.33				190	0.85	170
ELJFCR39M/KF	0.39				175	0.95	160
ELJFCR47M/KF	0.47				160	1.00	155
ELJFCR56M/KF	0.56				150	1.10	150
ELJFCR68M/KF	0.68				135	1.25	140
ELJFCR82M/KF	0.82				125	1.40	130
ELJFC1R0K/JF	1.00	±10 % ± 5 %		7.96	115	0.65	195
ELJFC1R2K/JF	1.20				100	0.75	180
ELJFC1R5K/JF	1.50				90	0.85	170
ELJFC1R8K/JF	1.80				85	0.95	160
ELJFC2R2K/JF	2.20				80	1.05	155
ELJFC2R7K/JF	2.70				75	1.20	145
ELJFC3R3K/JF	3.30				65	1.30	135
ELJFC3R9K/JF	3.90				60	1.40	130
ELJFC4R7K/JF	4.70				55	1.55	125
ELJFC5R6K/JF	5.60				50	1.75	120
ELJFC6R8K/JF	6.80				45	1.95	115
ELJFC8R2K/JF	8.20				40	2.20	105
ELJFC100K/JF	10.00			2.52	32	3.50	80
ELJFC120K/JF	12.00				30	3.80	75
ELJFC150K/JF	15.00				28	4.40	70
ELJFC180K/JF	18.00				25	5.00	65
ELJFC220K/JF	22.00				22	5.80	60
ELJFC270K/JF	27.00				21	6.30	115
ELJFC330K/JF	33.00		20		7.10	110	
ELJFC390K/JF	39.00		18		9.50	90	
ELJFC470K/JF	47.00	17	11.00		80		
ELJFC560K/JF	56.00	16	12.10		75		
ELJFC680K/JF	68.00	15	16.60		70		
ELJFC820K/JF	82.00	13	19.00		65		
ELJFC101K/JF	100.00	12	21.00		60		
			15	0.796			

*1 : Self Resonant Frequency *2 : DC Resistance

■ Type 3225(1210)FA

● Dimensions in mm (not to scale)

● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 2000 pcs./Reel

■ Examples

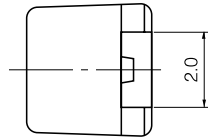
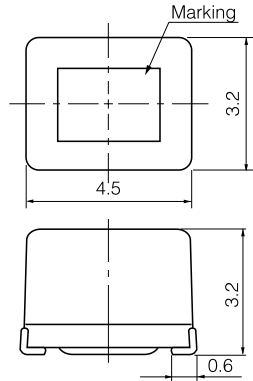
Part No.	Inductance		Q min.	L, Q Test Freq. (MHz)	SRF *1 (MHz)min.	DCR *2 (Ω)max.	DC Current (mA)max.
	(μH)	Tolerance					
ELJFAR22M/KF2	0.22	±20 % ±10 %	25	25.2	230	0.29	360
ELJFAR27M/KF2	0.27				210	0.32	345
ELJFAR33M/KF2	0.33				190	0.35	330
ELJFAR39M/KF2	0.39				175	0.39	305
ELJFAR47M/KF2	0.47				160	0.44	290
ELJFAR56M/KF2	0.56				150	0.49	275
ELJFAR68M/KF2	0.68				135	0.55	260
ELJFAR82M/KF2	0.82				125	0.61	245
ELJFA1R0K/JF2	1.00	±10 % ± 5 %	30	7.96	115	0.69	230
ELJFA1R2K/JF2	1.20				100	0.75	215
ELJFA1R5K/JF	1.50				90	0.75	210
ELJFA1R8K/JF	1.80				85	0.82	200
ELJFA2R2K/JF	2.20				80	0.95	190
ELJFA2R7K/JF	2.70				75	1.10	180
ELJFA3R3K/JF	3.30				65	1.20	180
ELJFA3R9K/JF	3.90				60	1.30	175
ELJFA4R7K/JF	4.70				55	1.50	165
ELJFA5R6K/JF	5.60				50	1.60	160
ELJFA6R8K/JF	6.80				45	1.80	150
ELJFA8R2K/JF	8.20				40	2.00	140
ELJFA100K/JF	10.00			2.52	36	2.10	140
ELJFA120K/JF	12.00				33	2.50	125
ELJFA150K/JF	15.00				30	2.80	120
ELJFA180K/JF	18.00				27	3.30	110
ELJFA220K/JF	22.00				25	3.70	105
ELJFA270K/JF	27.00				22	5.00	90
ELJFA330K/JF	33.00				20	5.60	85
ELJFA390K/JF	39.00				20	6.40	80
ELJFA470K/JF	47.00				15	7.00	75
ELJFA560K/JF	56.00				15	8.00	70
ELJFA680K/JF	68.00				15	9.00	65
ELJFA820K/JF	82.00				11	10.00	60
ELJFA101K/JF	100.00		20	0.796	10	10.00	60
ELJFA121K/JF	120.00				10	11.00	55
ELJFA151K/JF	150.00				8	15.00	50
ELJFA181K/JF	180.00				7	17.00	50
ELJFA221K/JF	220.00				7	21.00	45

*1 : Self Resonant Frequency *2 : DC Resistance

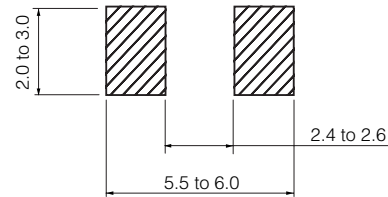
Design and specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use.
Whenever a doubt about safety arises from this product, please contact us immediately for technical consultation.

■ Type 4532(1812)FB

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 500 pcs./Reel

■ Examples

Part No.	Inductance			Q		SRF *1 (MHz)min.	DCR *2 (Ω)max.	DC Current (mA)max.		
	(μH)	Freq. (MHz)	Tolerance	min.	Freq. (MHz)					
ELJFBR22MF	0.22	1.0	±20 %	30	25.2	230.0	0.30	700		
ELJFBR27MF	0.27					200.0	0.32	650		
ELJFBR33MF	0.33					180.0	0.35	630		
ELJFBR39MF	0.39					155.0	0.37	620		
ELJFBR47MF	0.47					135.0	0.40	580		
ELJFBR56MF	0.56					120.0	0.42	560		
ELJFBR68MF	0.68					105.0	0.48	530		
ELJFBR82MF	0.82					90.0	0.50	500		
ELJFB1R0M/KF	1.00		±20 %	30	25.2	80.0	0.52	470		
ELJFB1R2M/KF	1.20					70.0	0.55	460		
ELJFB1R5M/KF	1.50					60.0	0.61	430		
ELJFB1R8M/KF	1.80					50.0	0.61	410		
ELJFB2R2M/KF	2.20					45.0	0.61	410		
ELJFB2R7M/KF	2.70					43.0	0.61	400		
ELJFB3R3M/KF	3.30		±10 %	30	7.96	39.0	0.66	380		
ELJFB3R9M/KF	3.90					36.0	0.74	360		
ELJFB4R7M/KF	4.70					33.0	0.81	350		
ELJFB5R6M/KF	5.60					30.0	0.88	330		
ELJFB6R8M/KF	6.80		±10 %	50	5	26.0	1.00	310		
ELJFB8R2M/KF	8.20					24.0	1.60	250		
ELJFB100K/JF	10.00					22.0	1.80	235		
ELJFB120K/JF	12.00					20.0	1.90	225		
ELJFB150K/JF	15.00					18.0	2.10	215		
ELJFB180K/JF	18.00					16.0	2.30	205		
ELJFB220K/JF	22.00				2.52	15.0	2.60	195		
ELJFB270K/JF	27.00					13.0	2.90	185		
ELJFB330K/JF	33.00					12.0	3.10	175		
ELJFB390K/JF	39.00					10.0	3.60	165		
ELJFB470K/JF	47.00					9.7	4.20	130		
ELJFB560K/JF	56.00					9.0	4.70	125		
ELJFB680K/JF	68.00		±5 %	40		8.2	5.30	115		
ELJFB820K/JF	82.00					7.5	5.90	110		
ELJFB101K/JF	100.00					6.7	8.80	105		
ELJFB121K/JF	120.00					6.1	10.00	100		
ELJFB151K/JF	150.00			1.5	5.5	11.00	95			
ELJFB181K/JF	180.00				5.1	13.00	85			
ELJFB221K/JF	220.00				4.5	13.00	85			
ELJFB271K/JF	270.00			0.796	0.1		30		4.1	14.00
ELJFB331K/JF	330.00	3.7							16.00	75
ELJFB391K/JF	390.00	3.3							19.00	70
ELJFB471K/JF	470.00	3.3							31.00	55
ELJFB561K/JF	560.00	2.7							35.00	50
ELJFB681K/JF	680.00	2.5							39.00	50
ELJFB821K/JF	820.00	2.4							45.00	45
ELJFB102K/JF	1000.00	2.1			53.00	40				

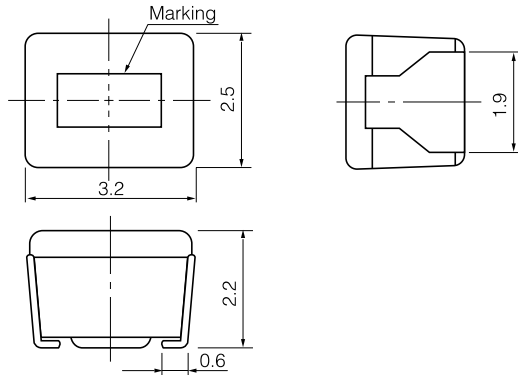
*1 : Self Resonant Frequency *2 : DC Resistance

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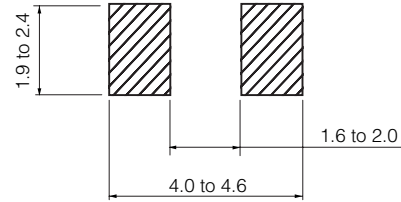
4. Magnetic Shielded Type SA

■ Type 3225(1210)SA

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 2000 pcs./1 reel

■ Examples

Part No.	Inductance			Q		SRF * ¹ (MHz)min.	DCR * ² (Ω)max.	DC Current (mA)max.
	(μH)	Freq. (MHz)	Tolerance	min.	Freq. (MHz)			
ELJSA100KF	10	1.0	±10 %	40	5.0	30	1.8	18
ELJSA120KF	12					28	2.0	17
ELJSA150KF	15					25	2.2	15
ELJSA180KF	18					23	2.5	13
ELJSA220KF	22					20	2.8	12
ELJSA270KF	27					18	3.2	10
ELJSA330KF	33					17	3.5	10
ELJSA390KF	39					15	3.8	9
ELJSA470KF	47					14	4.0	8
ELJSA560KF	56					13	4.5	7
ELJSA680KF	68	1.5		12	5.0	6		
ELJSA820KF	82			11	6.0	6		
ELJSA101KF	100			10	7.0	5		
ELJSA121KF	120			9	8.0	5		
ELJSA151KF	150			5	9.0	5		
ELJSA181KF	180			5	11.0	5		
ELJSA221KF	220			4	12.0	5		
ELJSA271KF	270			4	14.0	5		

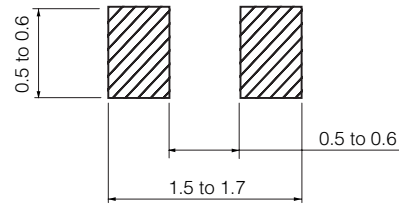
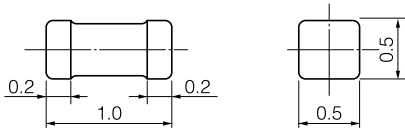
*1 : Self Resonant Frequency *2 : DC Resistance

5. High Power Types PF, PE, PC, PA, PB

■ Type 1005(0402)PF

● Dimensions in mm (not to scale)

● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 10000 pcs./Reel

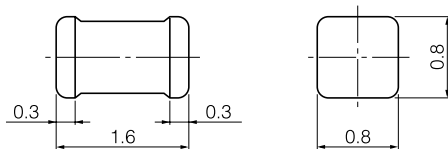
■ Examples

Part No.*3	Inductance		Q min.	L , Q Test Freq. (MHz)	SRF *1 (MHz)min.	DCR *2 (Ω)max.	DC Current (mA)max.
	(nH)	Tolerance					
ELJPF2N2DF	2.2	± 0.3 nH	7	100	5300	0.04	1900
ELJPF2N7DF	2.7				5300	0.05	1800
ELJPF3N3DF	3.3				5000	0.07	1500
ELJPF3N9DF	3.9				4800	0.08	1400
ELJPF4N7DF	4.7				4600	0.10	1300
ELJPF5N6DF	5.6	4200			0.12	1200	
ELJPF6N8JF	6.8	4000			0.16	1100	
ELJPF8N2JF	8.2	3700			0.21	900	
ELJPF10NJF	10.0	3200			0.26	750	

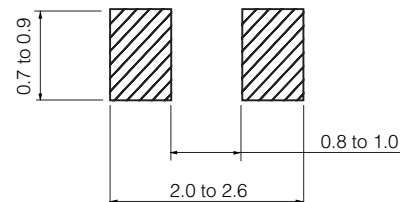
*1 : Self Resonant Frequency *2 : DC Resistance *3 Lead-Free P/Ns have an "FB" suffix, rather than 'F'

■ Type 1608(0603)PE

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 3000 pcs./Reel

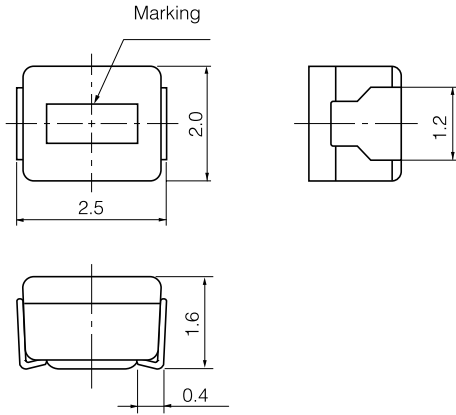
■ Examples

Part No.*3	Inductance		Q min.	L , Q Test Freq. (MHz)	SRF *1 (MHz) min.	DCR *2 (Ω)max.	DC Current (mA)max.
	(nH)	Tolerance					
ELJPE2N2KF	2.2	± 10 %	8	100	6000	0.030	2100
ELJPE2N7KF	2.7				5500	0.030	2100
ELJPE3N3KF	3.3				5500	0.040	2100
ELJPE3N9KF	3.9		5200		0.040	2100	
ELJPE4N7KF	4.7		4800		0.050	2100	
ELJPE5N6KF	5.6		4600		0.055	2100	
ELJPE6N8KF	6.8		4000		0.055	1900	
ELJPE8N2KF	8.2		3500		0.060	1700	
ELJPE10NKF	10.0		2800		0.065	1400	
ELJPE12NKF	12.0		2500		0.080	1300	
ELJPE15NKF	15.0		2200		0.100	900	
ELJPE18NKF	18.0		2000		0.120	800	
ELJPE22NKF	22.0		1800		0.150	700	

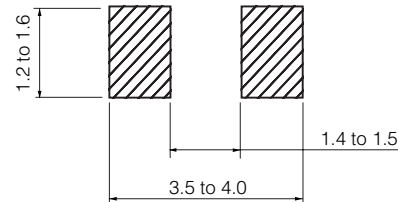
*1 : Self Resonant Frequency *2 : DC Resistance *3 Lead-Free P/Ns have an "FA" suffix, rather than 'F'

■ Type 2520(1008)PC

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

- 2000 pcs./Reel

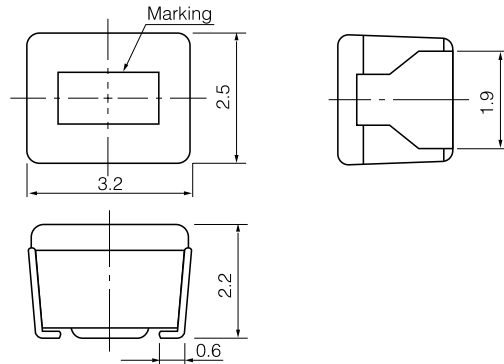
■ Examples

Part No.	Inductance		Q min.	L , Q Test Freq. (MHz)	SRF * ¹ (MHz)min.	DCR * ² (Ω)max.	DC Current (mA)max.
	(μH)	Tolerance					
ELJPC1R0MF	1.0	±20 %	10	7.96	95	0.45	475
ELJPC1R5MF	1.5				85	0.55	435
ELJPC2R2MF	2.2				65	0.65	390
ELJPC3R3MF	3.3				55	0.85	340
ELJPC4R7MF	4.7				43	1.20	285
ELJPC6R8KF	6.8	±10 %	8.5	2.52	44	1.30	170
ELJPC100KF	10.0		20		32	2.20	210
ELJPC120KF	12.0				25	2.70	195
ELJPC150KF	15.0				21	3.20	175
ELJPC220KF	22.0				18	4.00	160
ELJPC330KF	33.0				16	6.50	120

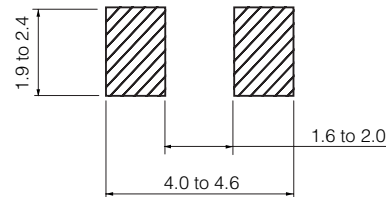
*1 : Self Resonant Frequency *2 : DC Resistance

■ Type 3225(1210)PA

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

- 2000 pcs./Reel

■ Examples

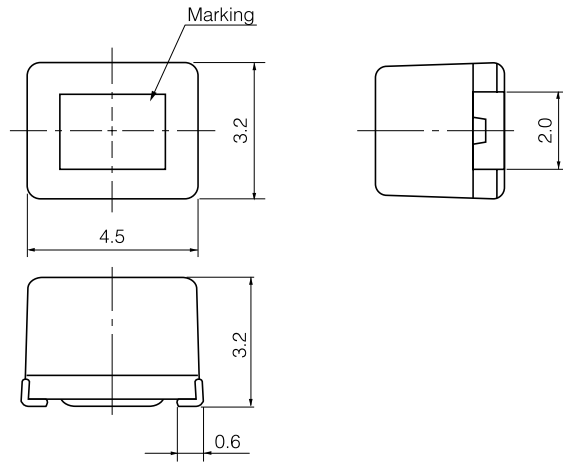
Part No.	Inductance		Q min.	L , Q Test Freq. (MHz)	SRF *1 (MHz)min.	DCR *2 (Ω)max.	DC Current (mA)max.
	(μ H)	Tolerance					
ELJPA1R0MF	1.0	$\pm 20\%$	7	7.96	150.0	0.15	600
ELJPA1R5MF	1.5				110.0	0.18	550
ELJPA2R2MF	2.2				80.0	0.23	500
ELJPA3R3MF	3.3				58.0	0.28	400
ELJPA4R7MF	4.7				46.0	0.34	350
ELJPA6R8MF	6.8				38.0	0.42	300
ELJPA100KF	10.0	$\pm 10\%$	15	2.52	23.0	0.50	240
ELJPA120KF	12.0				21.0	0.60	230
ELJPA150KF	15.0				18.0	0.74	220
ELJPA180KF	18.0				17.0	0.90	205
ELJPA220KF	22.0				15.0	1.15	185
ELJPA270KF	27.0				13.0	1.45	165
ELJPA330KF	33.0				12.0	1.65	155
ELJPA390KF	39.0				11.0	1.90	145
ELJPA470KF	47.0				9.5	2.25	135
ELJPA560KF	56.0				8.5	3.30	110
ELJPA680KF	68.0				7.5	3.70	105
ELJPA820KF	82.0				7.0	4.20	100
ELJPA101KF	100.0		20	0.796	6.5	5.00	90
ELJPA121KF	120.0				6.0	7.00	75
ELJPA151KF	150.0				5.5	8.00	70
ELJPA181KF	180.0				5.0	9.50	65
ELJPA221KF	220.0				4.0	11.00	60
ELJPA271KF	270.0				3.5	14.50	55
ELJPA331KF	330.0				3.0	16.00	50

*1 : Self Resonant Frequency *2 : DC Resistance

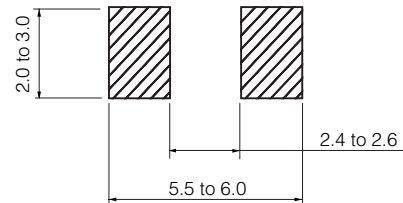
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■ Type 4532(1812)PB

● Dimensions in mm (not to scale)



● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

- 500 pcs./Reel

■ Examples

Part No.	Inductance		Q min.	L , Q Test Freq. (MHz)	SRF *1 (MHz)min.	DCR *2 (Ω)max.	DC Current (mA)max.
	(μ H)	Tolerance					
ELJPB100KF	10	$\pm 10\%$	10	2.52	19.0	0.65	360
ELJPB120KF	12				17.0	0.70	340
ELJPB150KF	15				15.0	0.80	320
ELJPB180KF	18				14.0	0.90	310
ELJPB220KF	22				13.0	1.00	300
ELJPB270KF	27				11.0	1.20	270
ELJPB330KF	33				10.0	1.40	250
ELJPB390KF	39				9.5	1.60	230
ELJPB470KF	47				8.5	1.90	210
ELJPB560KF	56				8.0	2.20	190
ELJPB680KF	68				7.0	2.60	170
ELJPB820KF	82				6.5	3.50	160
ELJPB101KF	100		20	0.796	6.0	4.00	150
ELJPB121KF	120				5.5	4.50	130
ELJPB151KF	150				5.0	6.50	120
ELJPB181KF	180				4.5	7.50	110
ELJPB221KF	220				4.0	9.00	90

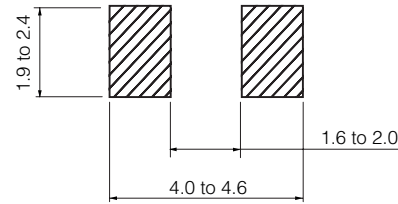
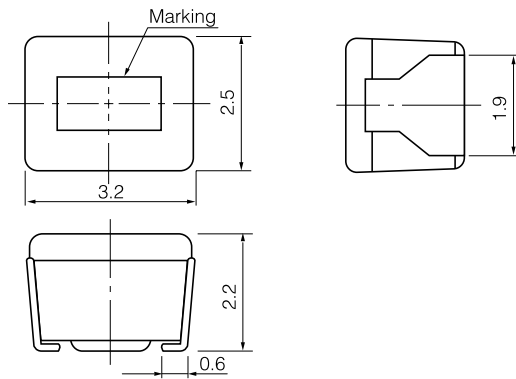
*1 : Self Resonant Frequency *2 : DC Resistance

6. Low DC resistance Type EA

■ Type 3225(1210)EA

● Dimensions in mm (not to scale)

● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 2000 pcs./Reel

■ Examples

Part No.	Inductance		Q min.	L, Q Test Freq. (MHz)	SRF *1 (MHz)min.	DCR *2 (Ω)max.	DC Current (mA)max.
	(μH)	Tolerance					
ELJEA1R0MF	1.0	±20 %	7	7.96	100.0	0.09	500
ELJEA1R5MF	1.5				80.0	0.10	390
ELJEA2R2MF	2.2				65.0	0.13	350
ELJEA3R3MF	3.3				50.0	0.16	270
ELJEA4R7MF	4.7				46.0	0.18	240
ELJEA6R8MF	6.8				36.0	0.25	200
ELJEA100KF	10.0	±10 %	10	2.52	29.0	0.34	160
ELJEA150KF	15.0				25.0	0.42	145
ELJEA220KF	22.0				18.0	0.65	115
ELJEA330KF	33.0				16.0	0.91	95
ELJEA470KF	47.0				13.0	1.30	80
ELJEA680KF	68.0				10.0	1.95	60
ELJEA101KF	100.0		20	0.796	8.0	3.12	50
ELJEA151KF	150.0				7.0	4.03	45
ELJEA221KF	220.0				5.0	7.15	35
ELJEA331KF	330.0				4.0	9.23	30

*1 : Self Resonant Frequency *2 : DC Resistance

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