

4. High Power Type PF, PC, PA, PB

Japan



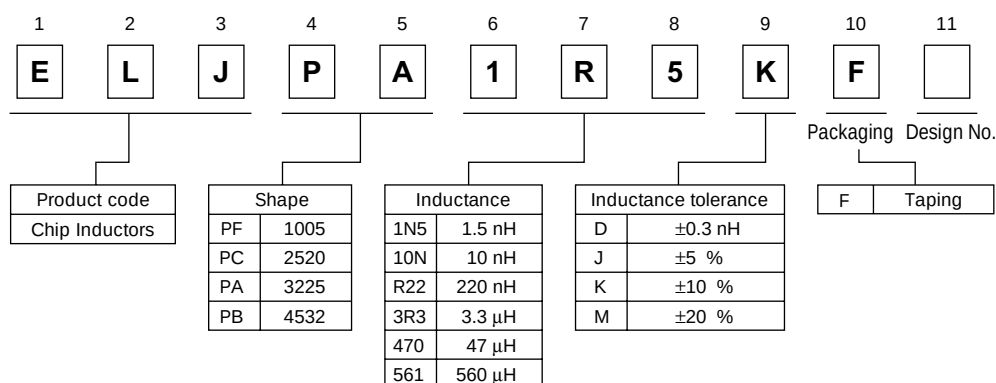
■ Features

- Low DCR and large current capability, suitable for power circuitry.
- Wire wound, resin molded chip inductor. (PC, PA, PB types)
- Unique Ceramic Core/Laser-cut technology (PF type)
- Capability of being Re-flow or Flow soldered.
- Wide line-up from 1005 to 4532 case sizes.
- RoHS Compliant

■ Recommended Applications

- AV equipment, Wireless communication equipment and various types of general electronic 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.

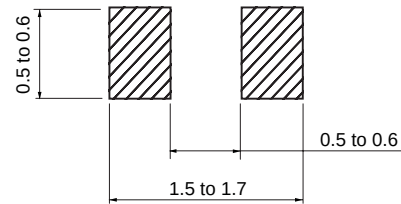
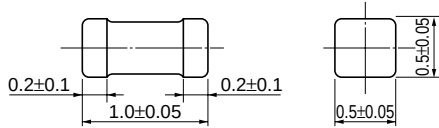
■ Soldering condition Refer 30 page.

■ Precautions for use Refer 31 page.

■ PF 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

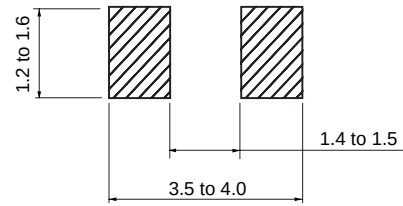
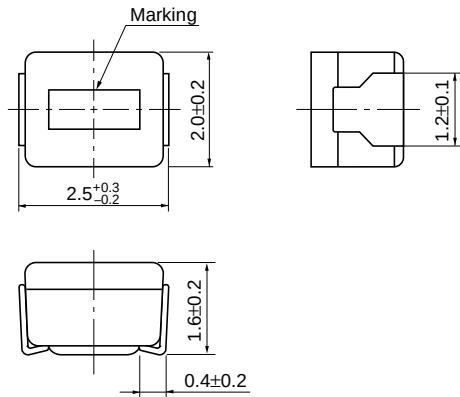
Part No.	Inductance			Q		SRF *1 (MHz) min.	R _{DC} *2 (Ω) max.	DC Current (mA) max.
	(nH)	Tolerance (%)	Test Freq. (MHz)	min.	Test Freq. (MHz)			
ELJPF2N2DFB	2.2	D : ±0.3 nH	100	7	100	5300	0.040	1900
ELJPF2N7DFB	2.7					5300	0.050	1800
ELJPF3N3DFB	3.3					5000	0.070	1500
ELJPF3N9DFB	3.9					4800	0.080	1400
ELJPF4N7DFB	4.7					4600	0.100	1300
ELJPF5N6DFB	5.6	J : ± 5 %	100	7	100	4200	0.120	1200
ELJPF6N8JFB	6.8					4000	0.160	1100
ELJPF8N2JFB	8.2					3700	0.210	900
ELJPF10NJFB	10					3200	0.260	750

*1 : Self Resonant Frequency *2 : DC Resistance

■ PC 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

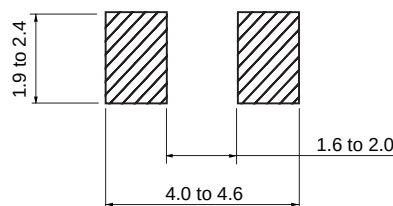
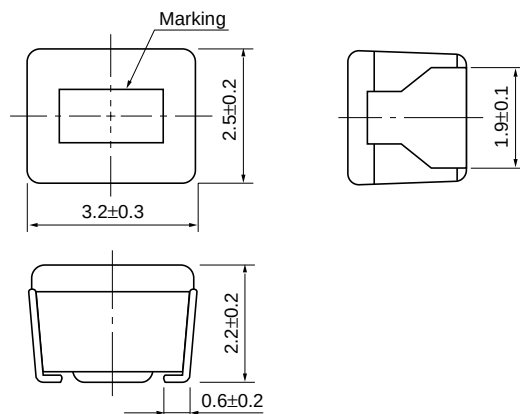
Part No.	Inductance			Q		SRF *1 (MHz) min.	R _{DC} *2 (Ω) max.	DC Current (mA) max.
	(μH)	Tolerance (%)	Test Freq. (MHz)	min.	Test Freq. (MHz)			
ELJPC1R0MF	1.0	M : ±20 %	7.96	10	7.96	95	0.45	475
ELJPC1R5MF	1.5					85	0.55	435
ELJPC2R2MF	2.2			8		65	0.65	390
ELJPC3R3MF	3.3					55	0.85	340
ELJPC4R7MF	4.7			43		1.2	285	
ELJPC6R8KF	6.8	K : ±10 %	2.52	8.5	2.52	44	1.3	170
ELJPC100KF	10			20		32	2.2	210
ELJPC120KF	12					25	2.7	195
ELJPC150KF	15					21	3.2	175
ELJPC220KF	22					18	4.0	160
ELJPC330KF	33					16	6.5	120

*1 : Self Resonant Frequency *2 : DC Resistance

■ PA 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

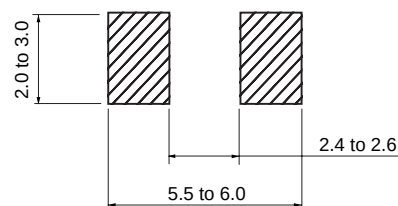
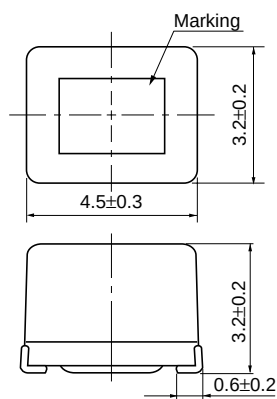
Part No.	Inductance			Q		SRF ^{*1} (MHz) min.	R _{DC} ^{*2} (Ω) max.	DC Current (mA) max.
	(μH)	Tolerance (%)	Test Freq. (MHz)	min.	Test Freq. (MHz)			
ELJPA1R0MF	1.0	M : ±20 %	7.96	7	7.96	150	0.15	600
ELJPA1R5MF	1.5					110	0.18	550
ELJPA2R2MF	2.2					80	0.23	500
ELJPA3R3MF	3.3					58	0.28	400
ELJPA4R7MF	4.7					46	0.34	350
ELJPA6R8MF	6.8					38	0.42	300
ELJPA100KF	10	K : ±10 %	2.52	15	2.52	23	0.50	240
ELJPA120KF	12					21	0.60	230
ELJPA150KF	15					18	0.74	220
ELJPA180KF	18					17	0.90	205
ELJPA220KF	22					15	1.15	185
ELJPA270KF	27					13	1.45	165
ELJPA330KF	33					12	1.65	155
ELJPA390KF	39					11	1.90	145
ELJPA470KF	47					9.5	2.25	135
ELJPA560KF	56		0.796	20	0.796	8.5	3.30	110
ELJPA680KF	68					7.5	3.70	105
ELJPA820KF	82					7.0	4.20	100
ELJPA101KF	100					6.5	5.00	90
ELJPA121KF	120					6.0	7.00	75
ELJPA151KF	150					5.5	8.00	70
ELJPA181KF	180					5.0	9.50	65
ELJPA221KF	220					4.0	11.0	60
ELJPA271KF	270					3.5	14.5	55
ELJPA331KF	330					3.0	16.0	50

*1 : Self Resonant Frequency *2 : DC Resistance

■ PB Type 4532 (1812)

● Dimensions in mm (not to scale)

● Recommended Land Pattern in mm (not to scale)



■ Standard Packing Quantity

● 500 pcs./Reel

■ Standard Parts

Part No.	Inductance			Q		SRF *1 (MHz) min.	R _{DC} *2 (Ω) max.	DC Current (mA) max.
	(μH)	Tolerance (%)	Test Freq. (MHz)	min.	Test Freq. (MHz)			
ELJPB100KF	10	K : ±10 %	2.52	10	2.52	19	0.65	360
ELJPB120KF	12					17	0.70	340
ELJPB150KF	15					15	0.80	320
ELJPB180KF	18					14	0.90	310
ELJPB220KF	22					13	1.0	300
ELJPB270KF	27					11	1.2	270
ELJPB330KF	33					10	1.4	250
ELJPB390KF	39					9.5	1.6	230
ELJPB470KF	47					8.5	1.9	210
ELJPB560KF	56					8	2.2	190
ELJPB680KF	68					7	2.6	170
ELJPB820KF	82					6.5	3.5	160
ELJPB101KF	100	K : ±10 %	0.796	20	0.796	6	4.0	150
ELJPB121KF	120					5.5	4.5	130
ELJPB151KF	150					5	6.5	120
ELJPB181KF	180					4.5	7.5	110
ELJPB221KF	220					4	9.0	90

*1 : Self Resonant Frequency *2 : DC Resistance