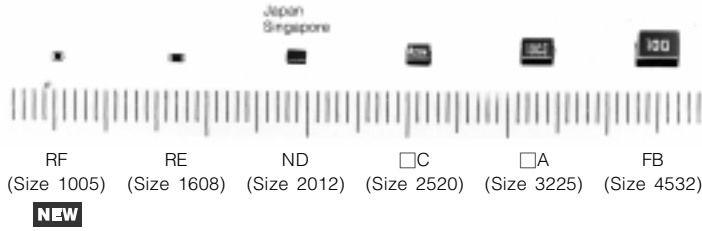


NEW

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Chip Inductors

Series: **Chip**
 Type: **RF, RE, ND, NC, NA, FC, FA, SA, FB, PC, PA,**



Non winding (RF, RE) and wire wound type chip inductors for automatic mounting and high-density mounting

Industrial Property: Patents 6 (incl. pending)

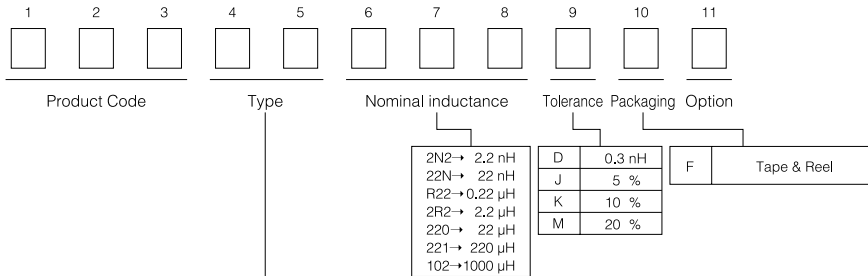
■ **Features**

- High Q
- Good for mounting
- Wide allowable range (1.0 nH to 1000 μ H)

■ **Recommended Applications**

- CTV, VTR, HIC, HDD, FDD, Cordless telephones, Portable telephones, Pagers, Video cameras

■ **Explanation of Part Numbers**



Types \ Styles	F	E	D	C	A	B
	1005 (0402)	1608 (0603)	2012 (0805)	2520 (1008)	3225 (1210)	4532 (1812)
Non Magnetic Core	RF	RE	ND	NC	NA	—
Regular	—	—	—	FC	FA	FB
Shield	—	—	—	—	SA	—
High Power	—	—	—	PC	PA	—

Size unit: mm (inch)

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■ Inductance, Size Guide

	Type NAME	L VALUE							Features
		0.001	0.01	0.1	1.0	10	100	1000	
Non Magnetic Core	1005 (0402) RF								<ul style="list-style-type: none"> ● Low inductance, tight tolerance ● Stable L value against an environmental condition ● Suitable for high frequency circuits
	1608 (0603) RE								
	2012 (0805) ND								
	2520 (1008) NC								
	3225 (1210) NA								
Regular	2520 (1008) FC								<ul style="list-style-type: none"> ● Suitable for various applications
	3225 (1210) FA								
	3225 (1210) SA Mag. shield								
	4532 (1812) FB								
High Power	2520 (1008) PC								<ul style="list-style-type: none"> ● Low DC resistance and large rated DC current ● Suitable for power line as choke coil
	3225 (1210) PA								

Size unit : mm (inch)

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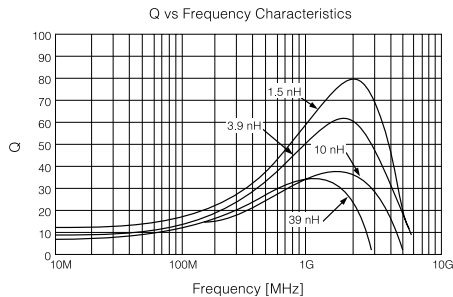
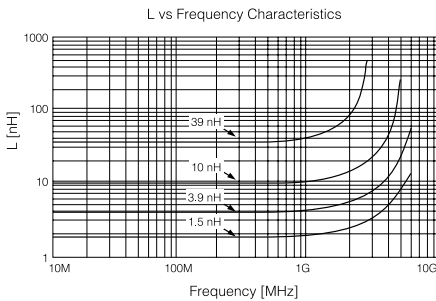
1. Non Magnetic Core Types RF, RE, ND, NC, NA

■ Examples : Type 1005(0402)RF

Part No.	Inductance		Q min. (100 MHz)	Q Typical (800 MHz)	SRF min. (MHz)	DCR max. (Ω)	Rated DC Current max. (mA)
	nH (100 MHz)	Tolerance					
ELJRF1N0DF2	1.0	±0.3 nH	8	21	6000	0.05	400
ELJRF1N2DF2	1.2		8	21	6000	0.06	400
ELJRF1N5DF2	1.5		8	21	6000	0.07	400
ELJRF1N8DF2	1.8		8	21	6000	0.08	400
ELJRF2N2DF2	2.2		8	21	6000	0.09	400
ELJRF2N7DF2	2.7		8	21	5500	0.10	400
ELJRF3N3DF2	3.3		8	21	5500	0.12	400
ELJRF3N9DF2	3.9		8	20	5200	0.15	360
ELJRF4N7DF2	4.7		8	20	4800	0.17	360
ELJRF5N6DF2	5.6		8	20	4600	0.19	340
ELJRF6N8JF2	6.8	± 5 %	8	19	4000	0.30	320
ELJRF8N2JF2	8.2		8	19	3500	0.35	320
ELJRF10NJF2	10		8	19	2800	0.41	320
ELJRF12NJF2	12		8	19	2800	0.45	320
ELJRF15NJF2	15		8	19	2500	0.60	240
ELJRF18NJF2	18		8	19	2200	0.70	240
ELJRF22NJF2	22		8	19	2000	0.80	200
ELJRF27NJF2	27		8	19	1800	1.2	200
ELJRF33NJF2	33		8	18	1800	1.4	170
ELJRF39NJF2	39		8	18	1800	1.7	150
ELJRF47NJF2	47	8	17	1800	2.1	140	

■ Performance Characteristics

Type: 1005 (0402) RF



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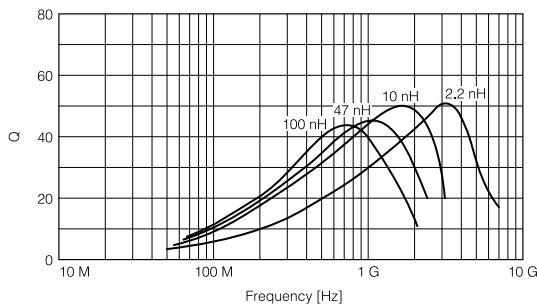
■ Examples : Type 1608(0603)RE

Part No.	Inductance		Q min. (100 MHz)	Q Typical (800 MHz)	SRF *1 min. (MHz)	DCR *2 max. (Ω)	Rated DC Current max. (mA)
	nH (100 MHz)	Tolerance					
ELJRE1N5DF2	1.5	±0.3 nH	8	47	6000	0.07	500
ELJRE1N8DF2	1.8		8	45	6000	0.08	500
ELJRE2N2DF2	2.2		8	35	6000	0.09	500
ELJRE2N7DF2	2.7		8	35	6000	0.10	500
ELJRE3N3DF2	3.3		9	35	5500	0.12	500
ELJRE3N9JF2	3.9	± 5 %	9	36	5500	0.15	450
ELJRE4N7JF2	4.7		9	36	4800	0.17	450
ELJRE5N6JF2	5.6		9	36	4600	0.18	430
ELJRE6N8JF2	6.8		9	36	3550	0.20	430
ELJRE8N2JF2	8.2		9	36	3500	0.28	400
ELJRE10NJF2	10		10	37	2800	0.32	400
ELJRE12NJF2	12		10	37	2800	0.35	400
ELJRE15NJF2	15		10	38	2500	0.41	350
ELJRE18NJF2	18		10	39	2300	0.45	350
ELJRE22NJF2	22		10	40	2000	0.50	300
ELJRE27NJF2	27		10	41	2000	0.55	300
ELJRE33NJF2	33		10	40	1800	0.60	300
ELJRE39NJF2	39		11	39	1800	0.80	300
ELJRE47NJF2	47		11	38	1800	0.95	250
ELJRE56NJF3	56		12	35	1800	1.2	250
ELJRE68NJF3	68	12	35	1500	1.3	250	
ELJRE82NJF3	82	12	33	1500	1.5	250	
ELJRER10JF3	100	12	30	1300	1.8	200	

*1 : Self Resonant Frequency *2 : DC Resistance

■ Q-Frequency Characteristics

Type: 1608 (0603) RE



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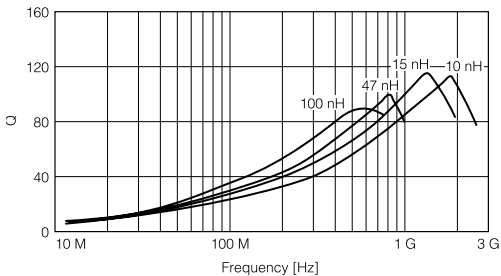
■ Examples : Type 2012(0805)ND

Part No.	Inductance		Q min.	L · Q Test-Freq. (MHz)	Q Typical (800 MHz)	SRF *1 min. (MHz)	DCR *2 max. (Ω)	Rated DC Current max. (mA)
	nH	Tolerance						
ELJND10NKF	10	± 10 %	10	100	72	3300	0.18	540
ELJND12NKF	12				67	3300	0.24	535
ELJND15NKF	15		12		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	± 5 % ± 10 %	15	72	2000	0.41	390	
ELJND47NJ/KF	47			71	1650	0.46	385	
ELJND56NJ/KF	56			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	10	51	800	0.86
ELJNDR12J/KF	120		32			600	0.99	275
ELJNDR15J/KF	150		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	8	7.96	—	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			—	80	3.88	120	

*1 : Self Resonant Frequency *2 : DC Resistance

■ Q-Frequency Characteristics

Type: 2012 (0805) ND



■ Examples : Type 2520(1008)NC

Part No.	Inductance		Q min.	L, Q Test Freq. (MHz)	SRF * (MHz) min.	DCR ** (Ω) max.	Rated 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 %	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 % ± 5 %	10	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		

* Self-Resonant Frequency

** DC Resistance

■ Examples : Type 3225(1210)NA

Part No.	Inductance			Q		SRF * (MHz) min.	DCR ** (Ω) max.	Rated DC Current (mA) max.			
	μ H	Freq. (MHz)	Tolerance	min.	Freq. (MHz)						
ELJNA47NMF	0.047	100	$\pm 20\%$	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	0.10					450	0.30	360			
ELJNAR12MF	0.12					400	0.67	240			
ELJNAR15MF	0.15	25.2	$\pm 20\%$	10	100	350	0.72	230			
ELJNAR18MF	0.18					320	0.81	220			
ELJNAR22KF	0.22	1.0	$\pm 10\%$	10	25.2	280	0.90	210			
ELJNAR27KF	0.27					250	1.0	200			
ELJNAR33KF	0.33					220	1.1	190			
ELJNAR39KF	0.39					200	1.2	180			
ELJNAR47KF	0.47					180	1.4	175			
ELJNAR56KF	0.56					160	1.5	170			
ELJNAR68KF	0.68					150	1.7	155			
ELJNAR82KF	0.82					135	1.9	145			
ELJNA1R0JF	1.0					$\pm 5\%$	13	7.96	120	2.1	125
ELJNA1R2JF	1.2								110	2.3	120
ELJNA1R5JF	1.5	95	2.7	115							
ELJNA1R8JF	1.8	85	3.0	110							
ELJNA2R2JF	2.2	80	3.2	110							
ELJNA2R7JF	2.7	70	3.6	105							
ELJNA3R3JF	3.3	62	4.2	100							
ELJNA3R9JF	3.9	57	4.4	95							
ELJNA4R7JF	4.7	52	7.7	70							
ELJNA5R6JF	5.6	46	8.7	65							
ELJNA6R8JF	6.8	42	10	60							
ELJNA8R2JF	8.2	38	11	60							

* Self-Resonant Frequency
 ** DC Resistance

2. Normal Types FC, FA, SA, FB

■ Examples : Type 2520(1008)FC

Part No.	Inductance		Q min.	L, Q Test Freq. (MHz)	SRF* (MHz) min.	DCR** (Ω) max.	Rated 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	1.0	155			
ELJFCR56M/KF	0.56				150	1.1	150			
ELJFCR68M/KF	0.68				135	1.25	140			
ELJFCR82M/KF	0.82				125	1.4	130			
ELJFC1R0K/JF	1.0	±10 % ± 5 %		25	7.96	115	0.65	195		
ELJFC1R2K/JF	1.2					100	0.75	180		
ELJFC1R5K/JF	1.5					90	0.85	170		
ELJFC1R8K/JF	1.8					85	0.95	160		
ELJFC2R2K/JF	2.2					80	1.05	155		
ELJFC2R7K/JF	2.7					75	1.2	145		
ELJFC3R3K/JF	3.3					65	1.3	135		
ELJFC3R9K/JF	3.9					60	1.4	130		
ELJFC4R7K/JF	4.7				55	1.55	125			
ELJFC5R6K/JF	5.6				50	1.75	120			
ELJFC6R8K/JF	6.8				45	1.95	115			
ELJFC8R2K/JF	8.2				40	2.2	105			
ELJFC100K/JF	10				20	20	2.52	32	3.5	80
ELJFC120K/JF	12							30	3.8	75
ELJFC150K/JF	15							28	4.4	70
ELJFC180K/JF	18							25	5.0	65
ELJFC220K/JF	22	22	5.8	60						
ELJFC270K/JF	27	21	6.3	115						
ELJFC330K/JF	33	20	7.1	110						
ELJFC390K/JF	39	18	9.5	90						
ELJFC470K/JF	47	17	11.0	80						
ELJFC560K/JF	56	16	12.1	75						
ELJFC680K/JF	68	15	16.6	70						
ELJFC820K/JF	82	13	19.0	65						
ELJFC101K/JF	100	15	0.796	12	21.0	60				

* Self-Resonant Frequency
 ** DC Resistance

■ Examples : Type 3225(1210)FA

Part No.	Inductance		Q min.	L, Q Test Freq. (MHz)	SRF* (MHz) min.	DCR** (Ω) max.	Rated DC Current (mA) max.
	μ H	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	1.0	±10 % ± 5 %	30	7.96	115	0.69	230
ELJFA1R2K/JF2	1.2				100	0.75	215
ELJFA1R5K/JF	1.5				90	0.75	210
ELJFA1R8K/JF	1.8				85	0.82	200
ELJFA2R2K/JF	2.2				80	0.95	190
ELJFA2R7K/JF	2.7				75	1.1	180
ELJFA3R3K/JF	3.3				65	1.2	180
ELJFA3R9K/JF	3.9				60	1.3	175
ELJFA4R7K/JF	4.7				55	1.5	165
ELJFA5R6K/JF	5.6				50	1.6	160
ELJFA6R8K/JF	6.8				45	1.8	150
ELJFA8R2K/JF	8.2				40	2.0	140
ELJFA100K/JF	10				36	2.1	140
ELJFA120K/JF	12				33	2.5	125
ELJFA150K/JF	15			30	2.8	120	
ELJFA180K/JF	18			27	3.3	110	
ELJFA220K/JF	22			25	3.7	105	
ELJFA270K/JF	27			22	5.0	90	
ELJFA330K/JF	33			20	5.6	85	
ELJFA390K/JF	39			20	6.4	80	
ELJFA470K/JF	47			15	7.0	75	
ELJFA560K/JF	56			15	8.0	70	
ELJFA680K/JF	68			15	9.0	65	
ELJFA820K/JF	82			11	10	60	
ELJFA101K/JF	100			10	10	60	
ELJFA121K/JF	120			10	11	55	
ELJFA151K/JF	150			8	15	50	
ELJFA181K/JF	180			7	17	50	
ELJFA221K/JF	220	7	21	45			

* Self-Resonant Frequency
 ** DC Resistance

■ Examples : Type 3225(1210)SA

Part No.	Inductance			Q		SRF* (MHz) min.	DCR** (Ω) max.	Rated 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					12	5.0	6
ELJSA820KF	82					11	6.0	6
ELJSA101KF	100					10	7.0	5
ELJSA121KF	120					0.1	±10 %	30
ELJSA151KF	150	5	9.0	5				
ELJSA181KF	180	5	11	5				
ELJSA221KF	220	4	12	5				
ELJSA271KF	270	4	14	5				

* Self-Resonant Frequency

** DC Resistance

■ Examples : Type 4532(1812)FB

Part No.	Inductance			Q		SRF* (MHz) min.	DCR** (Ω) max.	Rated DC Current (mA) max.	
	μH	Freq. (MHz)	Tolerance	min.	Freq. (MHz)				
ELJFB101K/JF	100	0.1	±10 % ± 5 %	40	2.52	6.7	8.8	105	
ELJFB121K/JF	120				6.1	10	100		
ELJFB151K/JF	150				5.5	11	95		
ELJFB181K/JF	180				5.1	13	85		
ELJFB221K/JF	220				4.5	13	85		
ELJFB271K/JF	270				4.1	14	80		
ELJFB331K/JF	330				3.7	16	75		
ELJFB391K/JF	390			3.3	19	70			
ELJFB471K/JF	470			30	±10 % ± 5 %	0.796	3.3	31	55
ELJFB561K/JF	560						2.7	35	50
ELJFB681K/JF	680						2.5	39	50
ELJFB821K/JF	820						2.4	45	45
ELJFB102K/JF	1000						2.1	53	40

* Self-Resonant Frequency

** DC Resistance

3. High Power Types PC, PA

■ Examples : Type 2520(1008)PC

Part No.	Inductance		Q min.	L, Q Test Frequency (MHz)	SRF * (MHz) min.	DCR ** (Ω) max.	Rated DC Current (mA) max.
	μ H	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	1.2	285
ELJPC6R8KF	6.8	±10 %	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

* Self-Resonant Frequency

** DC Resistance

■ Examples : Type 3225(1210)PA

Part No.	Inductance		Q min.	L, Q Test Freq. (MHz)	SRF * (MHz) min.	DCR ** (Ω) max.	Rated DC Current (mA) max.		
	μ H	Tolerance							
ELJPA1R0MF	1.0	±20 %	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	±10 %	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				8.5	3.30	110		
ELJPA680KF	68				7.5	3.70	105		
ELJPA820KF	82				7.0	4.20	100		
ELJPA101KF	100				20	0.796	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					

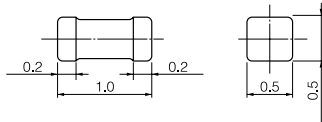
* Self-Resonant Frequency

** DC Resistance

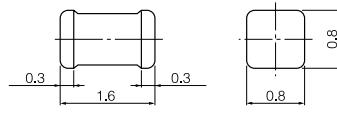
NEW

NEW

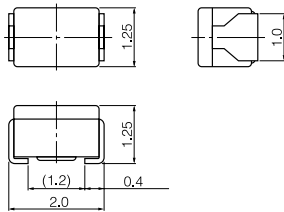
■ Dimensions in mm (not to scale)



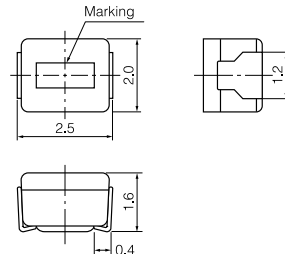
Type RF
(1.0×0.5×0.5)



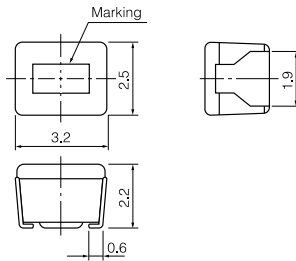
Type RE
(1.6×0.8×0.8)



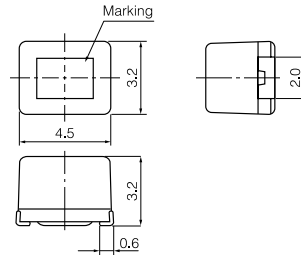
Types ND
(2.0×1.25×1.25)



Types FC, NC, PC
(2.5×2.0×1.6)

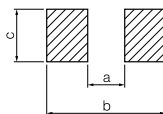


Types FA, SA, NA, PA
(3.2×2.5×2.2)



Type FB
(4.5×3.2×3.2)

■ Recommended Land Pattern in mm (not to scale)

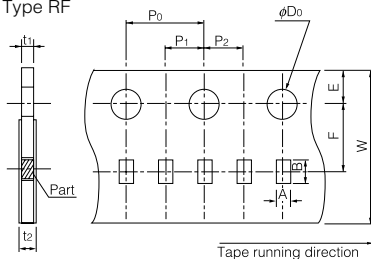


Type	a	b	c
RF	0.5~0.6	1.5~1.7	0.5~0.6
RE	0.8~1.0	2.0~2.6	0.7~0.9
ND	1.0~1.2	3.0~3.8	0.9~1.3
□C	1.4~1.5	3.5~4.0	1.2~1.6
□A	1.6~2.0	4.0~4.6	1.9~2.4
FB	2.4~2.6	5.5~6.0	2.0~3.0

□C: NC, FC, PC □A: NA, FA, SA, PA

■ Paper Tape Dimensions in mm (not to scale)

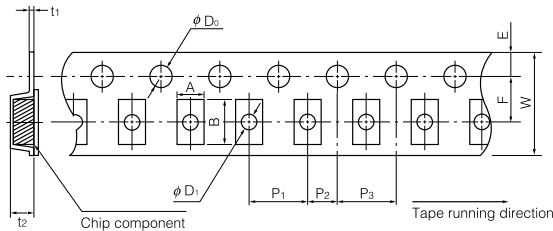
Type RF



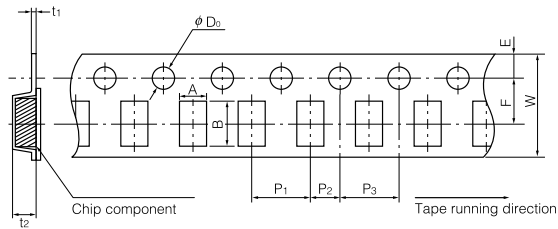
A	B	W	E	F	P ₁
0.71	1.21	8.0	1.75	3.5	2.0
P ₂	P ₀	φD ₀	t ₁	t ₂	
2.0	4.0	φ 1.5	0.7 max.	1.0 max.	

■ Embossed Carrier Tape Dimensions in mm (not to scale)

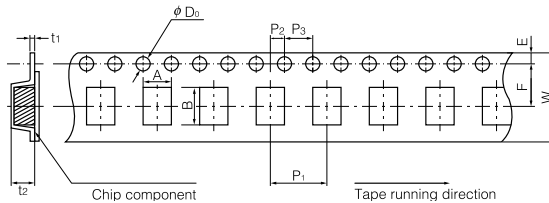
Types RE, ND, NC, FC, PC (W=8 mm)



Types NA, FA, SA, PA (W=8 mm)



Type FB (W=12 mm)



NEW

NEW

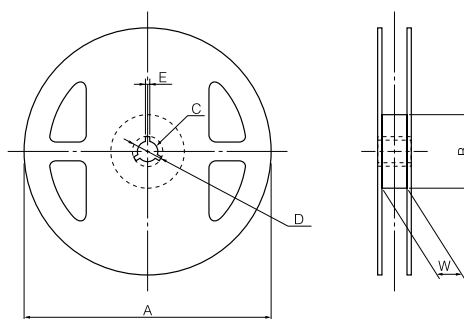
Dimensions		A	B	W	F	E	P ₁	P ₂	P ₃	φD ₀	φD ₁	t ₁	t ₂
		Size•Types											
1608(0603)	RE	1.0	1.8	8	3.5	1.75	4.0	2.0	4.0	1.5	0.6	(0.27)	1.2
2012(0805)	ND	1.45	2.25	8	3.5	1.75	4.0	2.0	4.0	1.5	1.0	(0.25)	1.55
2520(1008)	NC, FC, PC	2.4	2.9	8	3.5	1.75	4.0	2.0	4.0	1.5	1.1	(0.25)	1.85
3225(1210)	NA, FA, SA, PA	2.8	3.6	8	3.5	1.75	4.0	2.0	4.0	1.5	—	(0.25)	2.4
4532(1812)	FB	3.6	4.9	12	5.5	1.75	8.0	2.0	4.0	1.5	—	(0.3)	3.5

■ Packaging Methods

● Standard Packing Quantity and Mass

Types	Quantity, Mass	
	Quantity	Mass (Weight) Approx.
RF	10000 pcs.	—
RE, ND	3000 pcs.	90 g
NC, FC, PC	2000 pcs.	100 g
NA, FA, SA, PA	2000 pcs.	170 g
FB	500 pcs.	100 g

■ Reel Dimensions in mm (not to scale)



Types	Dimensions					
	A	B	C	D	E	W
RF	180	60	φ13	21	2	9
RE, ND, NC, FC, PC NA, FA, SA, PA	180	60	φ13	21	2	9
FB	180	60	φ13	21	2	13

Usage Precautions

For securing upgraded reliability and safety, consider following caution items.

1. Land pattern design

Refer to the recommended land dimensions of each type at flow and reflow soldering.

Avoid placing the chip inductor on any metal pattern except the land because the drop of Q and mutual conductance may occur.

Provisions for venting of flux gases should be made for high density assemblies.

2. Mounting

Placement force should not exceed 20N(2 kg-f) because electric and magnetic characteristics change as a result of application of excessive force.

3. Soldering

a Flow soldering

Recommended conditions: 260 °C max., 5sec. max.(total time at 2 waves method)

b Reflow soldering

1 Infra-red reflow soldering

Recommended conditions: 200°C or higher at electrode, 60sec. max. and peak 240°C max., 5sec. max.

If the solder at the two electrodes are not melt simultaneously, the chip inductor may not be mounted on the right place.

It is recommended to fix by adhesive when the deviation is great.

2 VPS reflow soldering

Recommended conditions: 215±5 °C, 20 to 60sec.

4. Cleaning

1 Do not use acid or alkali agents. Some cleaning solvents out of CFC may damage the products. Confirm the reliability in advance.

2 If ultrasonic cleaning is to be employed, please consult with us on technical issues prior to taking this action.

5. Instructions for applying current

The rated current is defined as the smaller value of either the current value when the inductance drops 10 % down from the initial point, or the current value when the average temperature of coil inside rises 20 K up from initial point.

Do not operate this coils beyond the specified rated current.

6. Storage

1 Be careful a high temperature, a large amount of moisture, gases and magnetic field.

2 At long storage of more than 1 year, use the products after inspecting the outer structure because a rust or a decline in the solderability may occur.