

Radio Frequency High Q (Non-magnetic) Multilayer Chip Ceramic Capacitor-JYV

CHARACTERISTICS

- Size specifications are standardized and suitable for surface mount components in hybrid integrated circuits or printed circuits;
- High Q value, low ESR, high reliability;
- Low loss, high capacitance stability, high operating frequency;
- Suitable for high-frequency circuits, VHF-microwave bands, RF and amplification circuits in various equipment;

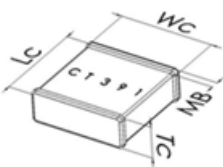


Main Performance Indicators

Temperature coefficient	COG: 0±30ppm/°C
Capacitance drift:	no more than±0.2% or ±0.05pF, whichever is larger.
Quality factor (Q value)	greater than 2,000 at a frequency of 1MHz/1KHz
Insulation resistance	≥100000MΩ at 20°C
Operating temperature	-55~125°C

Product Dimension

Product type	Size specifications (imperial)	Capacitor size(mm)			Terminal size(mm)			
		Lc	Wc	Tc max	MB	L _L min	W _L	T _L
Terminal code: N \ Z \ E	0402	1.00±0.20	0.50±0.20	0.55	0.25±0.10			
	0603	1.52±0.25	0.76±0.25	1.01	0.30±0.15			
	0805	2.00±0.25	1.25±0.25	1.45	0.50±0.20			
	0505	1.40 -0.25~+0.38	1.40±0.38	1.45	0.40±0.15			
	1111	2.79 -0.25~+0.51	2.79±0.38	2.59	0.60±0.20			
	2525	5.84 -0.25~+0.51	6.35±0.38	3.68	0.80±0.30			
	3838(L)	9.90 -0.25~+0.38	8.89±0.25	4.0	1.00±0.50			
	3838(M)	9.65 -0.25~+0.38	9.65±0.25	4.5	1.00±0.50			
	6243	15.60 -0.25~+0.51	10.92±0.38	5.0	1.20±0.50			
	7676	19.30 -0.25~+0.51	19.30±0.38	5.0	1.50±0.50			



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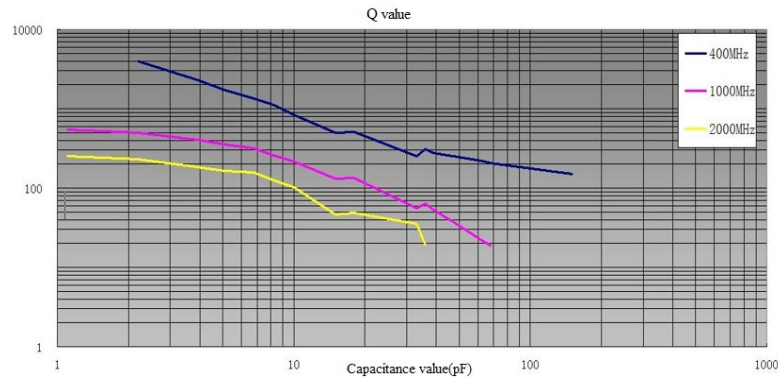
Terminal code: M 	1111	3.50±0.38	2.79±0.25	2.54	-	6.35	2.36±0.13	0.20±0.05
	2525	6.35±0.38	6.35±0.38	3.68		12.70	6.10±0.13	0.20±0.05
	3838(M)	9.65 -0.25~+0.89	9.65±0.25	4.50		19.05	8.64±0.25	0.25±0.10
	6243	15.60 -0.25~+0.89	10.92±0.38	5.0		19.05	8.64±0.25	0.25±0.10
	7676	19.30 -0.25~+0.89	19.30±0.38	5.0		19.05	15.00±0.25	0.25±0.10
Terminal code: A 	2525	6.35±0.38	6.35±0.38	3.68	12.70	6.10±0.13	0.20±0.05	
	3838(M)	9.65 -0.25~+0.89	9.65±0.25	4.50	19.05	8.64±0.25	0.25±0.10	
	6243	15.60 -0.25~+0.89	10.92±0.38	5.0	19.05	8.64±0.25	0.25±0.10	
	7676	19.30 -0.25~+0.89	19.30±0.38	5.0	19.05	15.00±0.25	0.25±0.10	
Terminal code: RW \ RN 	1111	3.90±0.51	2.79±0.38	2.59	12.70	Lead diameter 0.40±0.05		
	2525	5.84 -0.25~+1.91	6.35±0.38	3.68	25.40	Lead diameter 0.80±0.05		
	3838(L)	9.90 -0.25~+2.16	8.89±0.25	4.0				
	3838(M)	9.65 -0.25~+2.16	9.65±0.25	4.50				

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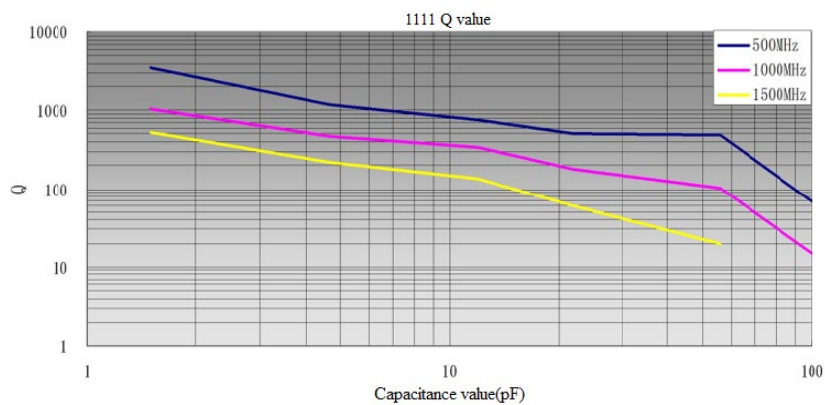
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Characteristic curve

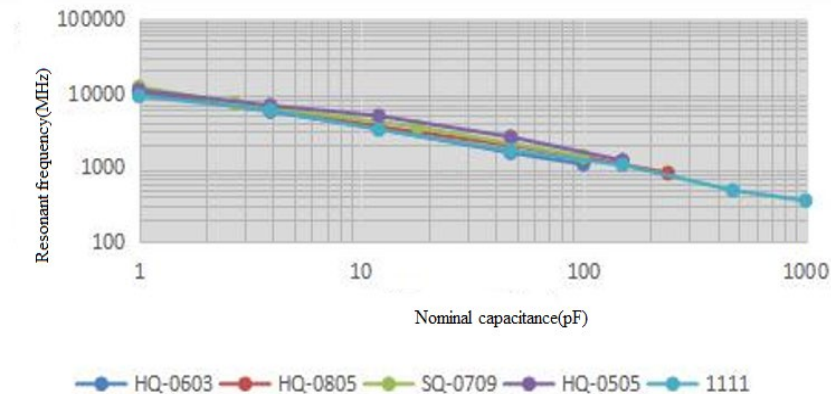
0505 Q value to Capacitance value



1111 Q value to Capacitance value



0603\0805\0709\0505\1111 Resonant frequency to nominal capacitance



Note: The above chart is obtained by testing with Agilent 4287A and N5222A, for reference only, and cannot represent factory inspection. Please visit our website to get more update data, those data & specification are subject to change without notice.

Radio Frequency High Q (Non-magnetic) Multilayer Chip Ceramic Capacitor-JYV

Capacity range

0402 specification capacitance table

Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)			
0R1	0.1	A B C	250	2R1	2.1	B C D	250	130	13	F G J	200			
0R2	0.2			2R2	2.2			150	15					
0R3	0.3			2R4	2.4			160	16					
0R4	0.4			2R7	2.7			180	18					
0R5	0.5	A B C D		3R0	3			B C D	200		200	20	F G J	50
0R6	0.6			3R3	3.3						220	22		
0R7	0.7			3R6	3.6						240	24		
0R8	0.8			3R9	3.9						270	27		
0R9	0.9			4R3	4.3						300	30		
1R0	1			4R7	4.7						330	33		
1R1	1.1			5R1	5.1	360	36							
1R2	1.2			5R6	5.6	390	39							
1R3	1.3			6R2	6.2	430	43							
1R4	1.4			6R8	6.8	470	47							
1R5	1.5			7R5	7.5									
1R6	1.6			8R2	8.2									
1R7	1.7			9R1	9.1									
1R8	1.8			100	10									
1R9	1.9			110	11									
2R0	2			120	12									

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Radio Frequency High Q (Non-magnetic) Multilayer Chip Ceramic Capacitor-JYV

0603 specification capacitance table

Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)
0R1	0.1	A B C	250	3R3	3.3	B C D	250	360	36	F G J K M	250
0R2	0.2			3R6	3.6			390	39		
0R3	0.3			3R9	3.9			430	43		
0R4	0.4			4R3	4.3			470	47		
0R5	0.5	4R7		4.7	510			51			
0R6	0.6	5R1		5.1	560			56			
0R7	0.7	5R6		5.6	620			62			
0R8	0.8	6R2		6.2	680			68			
0R9	0.9	6R8		6.8	750			75			
1R0	1	A B C D		7R5	7.5	820		82			
1R1	1.1			8R2	8.2	910		91			
1R2	1.2			9R1	9.1	101		100			
1R3	1.3			100	10						
1R4	1.4			110	11						
1R5	1.5			120	12						
1R6	1.6			130	13						
1R7	1.7			150	15						
1R8	1.8			160	16						
1R9	1.9			180	18						
2R0	2			200	20						
2R1	2.1			220	22						
2R2	2.2			240	24						
2R4	2.4			270	27						
2R7	2.7			300	30						
3R0	3			330	33						

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Radio Frequency High Q (Non-magnetic) Multilayer Chip Ceramic Capacitor-JYV

0505 specification capacitance table

Capacitan ce code	Capacitan ce (pF)	Accuracy	Max DC working voltage (V)	Capacitan ce code	Capacitan ce (pF)	Accuracy	Max DC working voltage (V)	Capacitan ce code	Capacitan ce (pF)	Accuracy	Max DC working voltage (V)
0R2	0.2	B C	250	3R6	3.6	B C D	250	390	39	F G J K M	250
0R3	0.3			3R9	3.9			430	43		
0R4	0.4			4R3	4.3			470	47		
0R5	0.5	4R7		4.7	510			51			
0R6	0.6	5R1		5.1	560			56			
0R7	0.7	5R6		5.6	620			62			
0R8	0.8	6R2		6.2	680			68			
0R9	0.9	6R8		6.8	750			75			
1R0	1	7R5		7.5	820			82			
1R1	1.1	8R2		8.2	910			91			
1R2	1.2	9R1		9.1	101			100			
1R3	1.3	100		10	111			110			
1R4	1.4	110		11	121			120			
1R5	1.5	120		12	131			130			
1R6	1.6	130		13	151			150			
1R7	1.7	150	15	161	160						
1R8	1.8	160	16	181	180						
1R9	1.9	180	18	201	200						
2R0	2	200	20	221	220						
2R1	2.1	220	22								
2R2	2.2	240	24								
2R4	2.4	270	27								
2R7	2.7	300	30								
3R0	3	330	33								
3R3	3.3	360	36								

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Radio Frequency High Q (Non-magnetic) Multilayer Chip Ceramic Capacitor-JYV

0805 specification capacitance table

Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)
0R2	0.2	B C	250	3R6	3.6	B C D	250	390	39	F G J K	250
0R3	0.3			3R9	3.9			430	43		
0R4	0.4			4R3	4.3			470	47		
0R5	0.5	4R7		4.7	510			51			
0R6	0.6	5R1		5.1	560			56			
0R7	0.7	5R6		5.6	620			62			
0R8	0.8	6R2		6.2	680			68			
0R9	0.9	6R8		6.8	750			75			
1R0	1	7R5		7.5	820			82			
1R1	1.1	8R2		8.2	910			91			
1R2	1.2	9R1		9.1	101			100			
1R3	1.3	100		10	111			110			
1R4	1.4	110		11	121			120			
1R5	1.5	120		12	131			130			
1R6	1.6	130		13	151			150			
1R7	1.7	150	15	161	160						
1R8	1.8	160	16	181	180						
1R9	1.9	180	18	201	200						
2R0	2	200	20	221	220						
2R1	2.1	220	22	241	240						
2R2	2.2	240	24								
2R4	2.4	270	27								
2R7	2.7	300	30								
3R0	3	330	33								
3R3	3.3	360	36								

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Radio Frequency High Q (Non-magnetic) Multilayer Chip Ceramic Capacitor-JYV

1111 specification capacitance table

Capacitance code	Capacitance (pf)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pf)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pf)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pf)	Accuracy	Max DC working voltage (V)
0R1	0.1	A B C	1500	3R3	3.3	A B C D	1500	360	36	F G J K	1000	391	390	F G J K	500
0R2	0.2			3R6	3.6			390	39			431	430		
0R3	0.3			3R9	3.9			430	43			471	470		
0R4	0.4			4R3	4.3			470	47			511	510		
0R5	0.5	A B C D		4R7	4.7	510		51	561	560		250			
0R6	0.6			5R1	5.1	560		56	621	620					
0R7	0.7			5R6	5.6	620		62	681	680					
0R8	0.8			6R2	6.2	680		68	751	750					
0R9	0.9			6R8	6.8	750		75	821	820					
1R0	1			7R5	7.5	820		82	911	910					
1R1	1.1			8R2	8.2	910		91	102	1000					
1R2	1.2			9R1	9.1	101		100							
1R3	1.3			A B C D	100	10		111	110						
1R4	1.4				110	11		121	120						
1R5	1.5				120	12		131	130						
1R6	1.6				130	13		151	150						
1R7	1.7				150	15		161	160						
1R8	1.8				160	16		181	180						
1R9	1.9				180	18		201	200						
2R0	2				200	20		221	220						
2R1	2.1	220	22		241	240									
2R2	2.2	240	24		271	270									
2R4	2.4	270	27	301	300										
2R7	2.7	300	30	331	330										
3R0	3	330	33	361	360										

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Radio Frequency High Q (Non-magnetic) Multilayer Chip Ceramic Capacitor-JYV

2525 specification capacitance table

Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)					
1R0	1.0	B C	3600	7R5	7.5	B	3600	820	82	F G J K M	3600	911	910	F G J K M	1000					
1R1	1.1			8R2	8.2	C		910	91			102	1000							
1R2	1.2			9R1	9.1	D		101	100			112	1100							
1R3	1.3	100		10		111		110	122			1200								
1R4	1.4	110		11		121		120	152			1500								
1R5	1.5	120		12		131		130	182			1800								
1R6	1.6	130		13		151		150	202			2000								
1R7	1.7	150		15		161		160	222			2200								
1R8	1.8	160		16		181		180	272			2700								
1R9	1.9	180		18		201		200												
2R0	2.0	B C D			200	20														500
2R1	2.1			220	22	F		241	240											
2R2	2.2			240	24	G		271	270											
2R4	2.4			270	27	J		301	300											
2R7	2.7			300	30	K		331	330											
3R0	3			330	33	M		361	360											
3R3	3.3			360	36			391	390											
3R6	3.6			390	39			431	430											
3R9	3.9			430	43			471	470											
4R3	4.3			470	47			511	510											
4R7	4.7			510	51			561	560											
5R1	5.1			560	56			621	620											
5R6	5.6			620	62			681	680											
6R2	6.2			680	68			751	750											
6R8	6.8		750	75		821	820													

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Radio Frequency High Q (Non-magnetic) Multilayer Chip Ceramic Capacitor-JYV

3838 specification capacitance table

Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)						
1R0	1.0	B C	7200	7R5	7.5	B	7200	820	82	F G J K M	7200	911	910	F G J K M	1500						
1R1	1.1			8R2	8.2	C		910	91			102	1000								
1R2	1.2			9R1	9.1	D		101	100			112	1100								
1R3	1.3	100		10	F G J K M	111		110	122			1200	1000								
1R4	1.4	110		11		121		120	152			1500									
1R5	1.5	120		12		5000		131	130			182	1800								
1R6	1.6	130		13				151	150			202	2000								
1R7	1.7	150		15				161	160			222	2200								
1R8	1.8	160		16		181		180	242			2400	500								
1R9	1.9	180		18		201		200	272			2700									
2R0	2.0	200		20		221		220	302			3000									
2R1	2.1	220		22		241		240	332			3300									
2R2	2.2	B C D		7200		240		24	F G J K M			7200	271		270	J K M	3600	362	3600	F G J K M	250
2R4	2.4					270		27					301		300			392	3900		
2R7	2.7					300		30					331		330			432	4300		
3R0	3	330	33			361	360	472		4700											
3R3	3.3	360	36			391	390	512		5100											
3R6	3.6	390	39			431	430	562		5600											
3R9	3.9	430	43		471	470	622	6200													
4R3	4.3	470	47		511	510	682	6800													
4R7	4.7	510	51		561	560	2500														
5R1	5.1	560	56		621	620															
5R6	5.6	620	62		681	680															
6R2	6.2	680	68		751	750	1500														
6R8	6.8	750	75		821	820															

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Radio Frequency High Q (Non-magnetic) Multilayer Chip Ceramic Capacitor-JYV

6243 specification capacitance table

Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)		
1R0	1.0	B	10000	7R5	7.5	B	10000	820	82	F	10000	911	910	F	3000		
1R1	1.1			8R2	8.2	C		910	91			102	1000				
1R2	1.2			9R1	9.1	D		101	100			122	1200				
1R3	1.3	C		100	10	G		111	110			152	1500		J	2500	
1R4	1.4			110	11			121	120			182	1800			F	2000
1R5	1.5			120	12			131	130			202	2000			G	1500
1R6	1.6			130	13			151	150			222	2200			K	1000
1R7	1.7			150	15			161	160			242	2400			M	
1R8	1.8			160	16			181	180			272	2700				
1R9	1.9			180	18			201	200			302	3000				
2R0	2.0	D	200	20	K	221	220	332	3300	M	3600	392	3900	500			
2R1	2.1		220	22		241	240	472	4700								
2R2	2.2		240	24		271	270										
2R4	2.4		270	27		301	300										
2R7	2.7		300	30		331	330										
3R0	3		330	33		361	360										
3R3	3.3		360	36		391	390										
3R6	3.6		390	39		431	430										
3R9	3.9		430	43		471	470										
4R3	4.3		470	47		511	510										
4R7	4.7	510	51	561	560												
5R1	5.1	560	56	621	620												
5R6	5.6	620	62	681	680												
6R2	6.2	680	68	751	750		3000										
6R8	6.8	750	75	821	820												

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Radio Frequency High Q (Non-magnetic) Multilayer Chip Ceramic Capacitor-JYV

7676 specification capacitance table

Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)	Capacitance code	Capacitance (pF)	Accuracy	Max DC working voltage (V)						
1R0	1.0	B C	10000	7R5	7.5	B	10000	820	82	F G J K M	10000	911	910	F G J K M	3600						
1R1	1.1			8R2	8.2	C		910	91			102	1000								
1R2	1.2			9R1	9.1	D		101	100			122	1200								
1R3	1.3	100		10	F G J K M	111		110	152			1500									
1R4	1.4	110		11		121		120	182			1800									
1R5	1.5	B C D		10000	120	12		F G J K M	10000			131	130			F G J K M	8000	202	2000	F G J K M	3000
1R6	1.6				130	13						151	150					222	2200		
1R7	1.7				150	15						161	160					272	2700		
1R8	1.8				160	16						181	180					332	3300		
1R9	1.9				180	18						201	200					392	3900		
2R0	2.0		200		20	221	220			472	4700										
2R1	2.1		220		22	241	240			562	5600										
2R2	2.2		240		24	271	270			682	6800										
2R4	2.4		270		27	301	300			752	7500										
2R7	2.7	300	30		331	330	822			8200											
3R0	3	330	33	361	360	3600															
3R3	3.3	360	36	391	390																
3R6	3.6	390	39	431	430																
3R9	3.9	430	43	471	470																
4R3	4.3	470	47	511	510																
4R7	4.7	510	51	561	560																
5R1	5.1	560	56	621	620																
5R6	5.6	620	62	681	680																
6R2	6.2	680	68	751	750																
6R8	6.8	750	75	821	820																

Please contact us for special item or size not listed

Please visit our website to get more update data, those data & specification are subject to change without notice.