

Kingtronics®

BKT-ET

Radio Frequency High Q Multilayer
Chip Ceramic Capacitor
Non-magnetic



CHARACTERISTICS

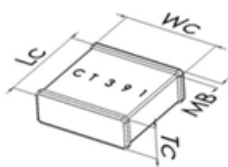
- Size specifications are standardized and suitable for surface mount components in hybrid integrated circuits or printed circuits;
- High Q value, low ESR, high reliability;
- Low loss, high capacitance stability, high operating frequency;
- Suitable for high-frequency circuits, VHF-microwave bands,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

Main Performance Indicators

Temperature coefficient	C0G: 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			



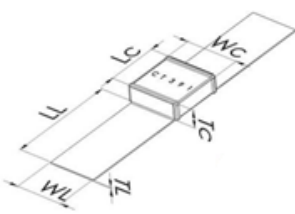
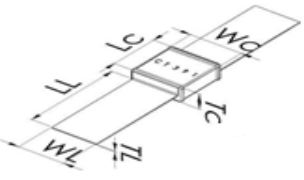
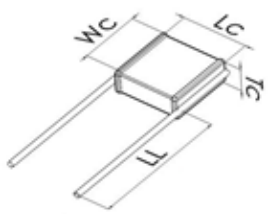
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Terminal code: M 	1111	3.50±0.38	2.79±0.25	2.54	6.35	2.36±0.13	0.20±0.05
	2525	6.35±0.38	6.35±0.38	3.68	12.70	6.10±0.13	0.20±0.05
	3838(M)	9.65 -0.25~+0.89	9.65±0.25	4.50	19.05	8.64±0.25	0.25±0.10
	6243	15.60 -0.25~+0.89	10.92±0.38	5.0	19.05	8.64±0.25	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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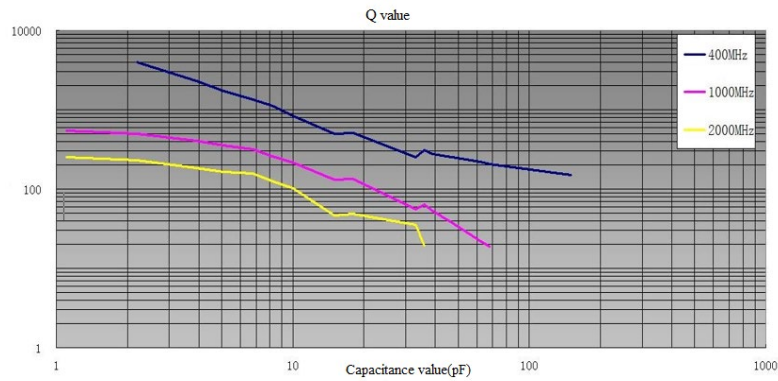
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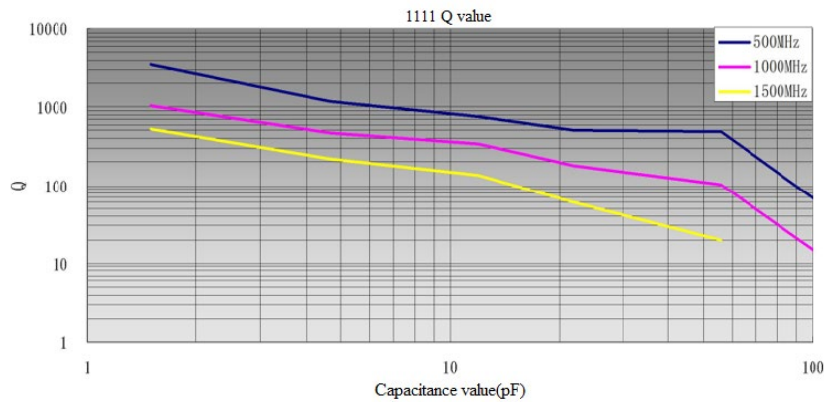
Radio Frequency High Q Multilayer
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Characteristic curve

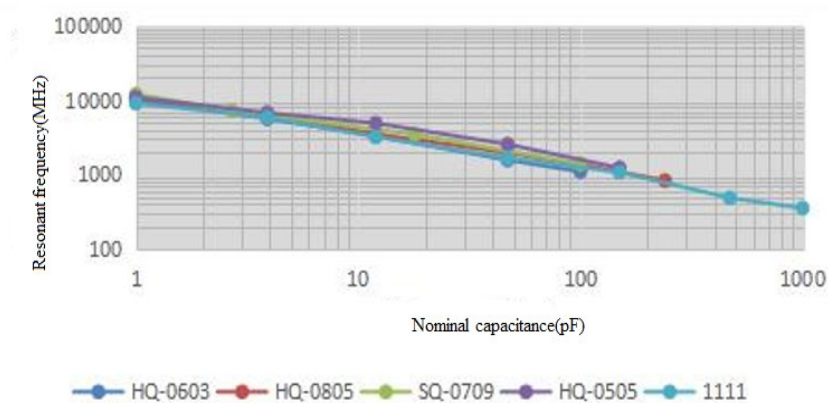
0505 Q value to Capacitance value



1111 Q value to Capacitance value



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



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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	3R0		3	200			20			
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	200						
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							
				F G J							

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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		250	7R5	7.5		F G J K M	250		820	82	F G J K M	150
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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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 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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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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Chip Ceramic Capacitor

1111 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)	Capacitan ce code	Capacitan ce (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	4R7		4.7	510			51	561			560			
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	A B C D		6R8	6.8	750		75	821			820	250		
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			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	A B C D	200	20	221	220	600								
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		500							
3R0	3		330	33	361	360									

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Radio Frequency High Q Multilayer
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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	B C D		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			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	2000						
3R0	3	330	33	361	360	1500									
3R3	3.3	360	36	391	390										
3R6	3.6	390	39	431	430										
3R9	3.9	430	43	471	470	1000									
4R3	4.3	470	47	511	510										
4R7	4.7	510	51	561	560										
5R1	5.1	560	56	621	620	1000									
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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Chip Ceramic Capacitor

3838 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)	Capacitan ce code	Capacitan ce (pF)	Accuracy	Max DC working voltage (V)
1R0	1.0	B	7200	7R5	7.5	B	7200	820	82	F	7200	911	910	F	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	C	7200	100	10	F	7200	111	110	J	5000	122	1200	K	1000
1R4	1.4			110	11			121	120			152	1500		
1R5	1.5			120	12			131	130			182	1800		
1R6	1.6	D	7200	130	13	G	7200	151	150	M	5000	202	2000	M	500
1R7	1.7			150	15			161	160			222	2200		
1R8	1.8			160	16			181	180			242	2400		
1R9	1.9	B	7200	180	18	J	7200	201	200	K	3600	272	2700	J	500
2R0	2.0			200	20			221	220			302	3000		
2R1	2.1			220	22			241	240			332	3300		
2R2	2.2	C	7200	240	24	K	7200	271	270	M	3600	362	3600	K	250
2R4	2.4			270	27			301	300			392	3900		
2R7	2.7			300	30			331	330			432	4300		
3R0	3	D	7200	330	33	M	7200	361	360	M	2500	472	4700	M	250
3R3	3.3			360	36			391	390			512	5100		
3R6	3.6			390	39			431	430			562	5600		
3R9	3.9	B	7200	430	43	J	7200	471	470	K	3600	622	6200	K	250
4R3	4.3			470	47			511	510			682	6800		
4R7	4.7			510	51			561	560						
5R1	5.1	C	7200	560	56	K	7200	621	620	M	2500			M	250
5R6	5.6			620	62			681	680						
6R2	6.2			680	68			751	750						
6R8	6.8	D	7200	750	75	M	7200	821	820	M	1500			M	250

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Radio Frequency High Q Multilayer
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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 C	10000	7R5	7.5	B	10000	820	82	F G J K M	10000	911	910	F G J K M	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	B C		100	10	F G J K M		10000	111		110	F G J K M	7200	152	1500	F G J K M	2500				
1R4	1.4			110	11				121		120			182	1800						
1R5	1.5			120	12				131		130			202	2000						
1R6	1.6			130	13				151		150		222	2200	1500						
1R7	1.7			150	15				161		160		242	2400							
1R8	1.8			160	16				181		180		272	2700							
1R9	1.9			B C D	180				18		F G J K M		10000	201	200	F G J K M	3600	302	3000	F G J K M	1000
2R0	2.0				200				20					221	220			332	3300		
2R1	2.1				220				22					241	240			392	3900		
2R2	2.2	B C D		240	24	F G J K M		10000	271		270	F G J K M	3600	472	4700	F G J K M	500				
2R4	2.4			270	27				301		300			3600							
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		B C D	680	68		F G J K M		10000	751	750				F G J K M			3000	3000		
6R8	6.8	750		75	821	820															

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Chip Ceramic Capacitor

7676 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)	Capacitan ce code	Capacitan ce (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		111		110	152			1500									
1R4	1.4	110		11		121		120	182			1800									
1R5	1.5	B C D		120	12			131	130			202	2000			F	8000	222	2200	G	3000
1R6	1.6			130	13			151	150			272	2700			J					
1R7	1.7			150	15			161	160			332	3300			K					
1R8	1.8			160	16			181	180			392	3900			M					
1R9	1.9			180	18			201	200			472	4700								
2R0	2.0		200	20		221	220	562	5600												
2R1	2.1		220	22	F	241	240	682	6800												
2R2	2.2		240	24	G	271	270	752	7500												
2R4	2.4	270	27	J	301	300	822	8200													
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															

Please contact us for special item or size not listed

Note: Specifications are subject to change without notice.

Kingtronics® International Company

Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099