

Kingtronics®

BKT-ET

Radio Frequency High Q Multilayer
Chip Ceramic Capacitor
Non-magnetic



CHARACTERISTICS

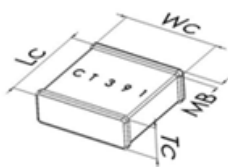
- Size specifications are standardized and suitable for surface mount components in hybrid integrated circuits or printed circuits;
- High Q value, low ESR, high reliability;
- Low loss, high capacitance stability, high operating frequency;
- Suitable for high-frequency circuits, VHF-microwave bands,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



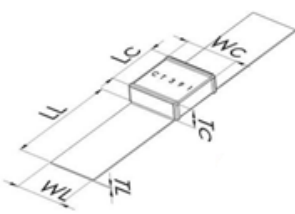
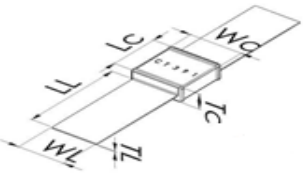
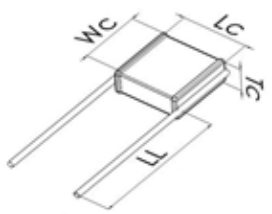
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Terminal code: M 	1111	3.50±0.38	2.79±0.25	2.54	6.35	2.36±0.13	0.20±0.05
	2525	6.35±0.38	6.35±0.38	3.68	12.70	6.10±0.13	0.20±0.05
	3838(M)	9.65 -0.25~+0.89	9.65±0.25	4.50	19.05	8.64±0.25	0.25±0.10
	6243	15.60 -0.25~+0.89	10.92±0.38	5.0	19.05	8.64±0.25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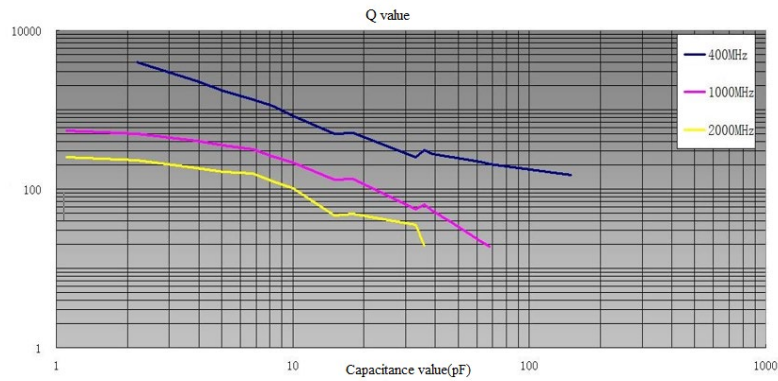
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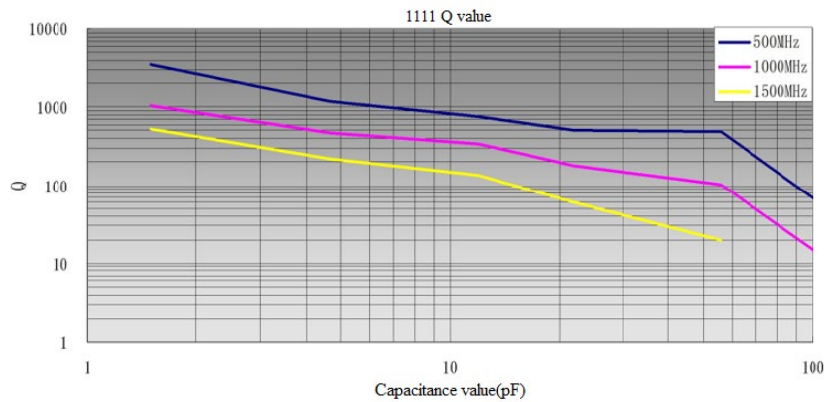
Radio Frequency High Q Multilayer
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Characteristic curve

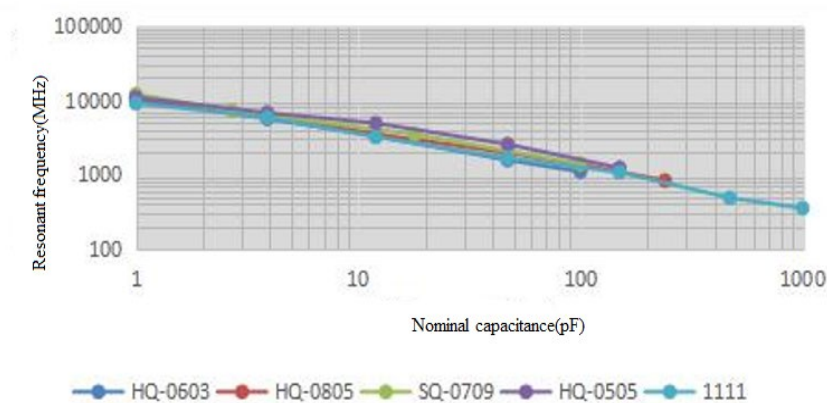
0505 Q value to Capacitance value



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	A B C D		3R0	3			200	200		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							
1R6	1.6			8R2	8.2							
1R7	1.7			9R1	9.1							
1R8	1.8			100	10	F G J	200	200	200			
1R9	1.9			110	11							
2R0	2			120	12							

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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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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	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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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										
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 Multilayer
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 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	111	110		122	1200			1000													
1R4	1.4	110		11	121	120		152	1500			500													
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			500													
1R8	1.8	160		16	181	180		242	2400																
1R9	1.9	180		18	201	200		272	2700																
2R0	2.0	B C D		7200	200	20		F G J K M	7200			221	220		F G J K M	7200	302	3000	F G J K M	500					
2R1	2.1				220	22						241	240				332	3300							
2R2	2.2				240	24						271	270				362	3600							
2R4	2.4				270	27						301	300				392	3900		250					
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	250													
3R6	3.6		390		39	431	430			562	5600														
3R9	3.9		430		43	471	470			622	6200														
4R3	4.3		B C D		7200	470	47			F G J K M	7200	511	510	F G J K M			7200	682		6800	F G J K M	250			
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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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 D		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			
1R7	1.7			150	15				161		160		242	2400			
1R8	1.8			160	16				181		180		272	2700			
1R9	1.9			180	18				201		200		302	3000			
2R0	2.0			200	20				221		220		332	3300			
2R1	2.1			220	22				241		240		392	3900			
2R2	2.2	240		24	271	270		472	4700								
2R4	2.4	B C D		270	27	F G J K M		10000	301		300	F G J K M	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		3000								
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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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	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

Note: Specifications are subject to change without notice.

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