



Safety Certified Multilayer Ceramic Chip Capacitor Cross Reference Guide

Chip Case Size/Style Cross Reference Chart

HEC	1808	1812	2208	2211	2220
Johanson	R29	S43	NA	R30	S47
Novacap	LS1808	LS1812	NA	ES2211	NA
Murata	GA342	GA343	NA	GA352	GA355
Syfer	1808	1812	NA	2211	2220
Kyocera	42	NA	52	53	NA



Safety Certified MLC Capacitor X-Reference Guide

HEC: SCC1808X102K302TS

SCC Safety Certified Capacitor	1808 EIA Size	X Dielectric	102 Capacitance	K Tolerance	302 Voltage	T Packaging	S Special Requirement
	1808 1812 2208 2211 2220	N: NPO X: X7R	1 st two digits are significant, 3rd digit denotes number of zeros. R= Decimal 5R0: 5.0 pF 100: 10 pF 330: 33 pF 471: 470 pF 102: 1000 pF	J: ± 5% K: ± 10% M: ± 20%	302: X2/Y3 502: X1/Y2 602: X1/Y2 (Meets Australian Safety Requirement)	T: Tape & Reel (7") B: Bulk	S: Arc Resistant X: Super Term Blank: Standard

Johanson: 302R29W102KV4E-**-SC**

302 Impulse Voltage	R29 Size	W Dielectric	102 Capacitance	K Tolerance	V Termination	4 Marking	E Packaging	SC Type
302: 3 KV 502: 5 KV	R29: 1808 S43: 1812 R30: 2211 S47: 2220	N: NPO X: X7R	1 st two digits are significant, 3rd digit denotes number of zeros. R= Decimal 5R0: 5.0 pF 100: 10 pF 330: 33 pF 471: 470 pF 102: 1000 pF	J: ± 5% K: ± 10% M: ± 20%	V: Ni barrier with 100% Sn plating	3: Special (JSC) 4: No Marking	E: Embossed 7" Reel	SC: Safety Certified

Novacap: LS1808B102K302NX080TM

LS1808 Size	B Dielectric	102 Capacitance	K Tolerance	302 Voltage	N Termination	X080 Thickness Option	T Packaging	M Marking
LS1808 LS1812 ES2211 ES2215 ES2225	N: COG B: X7R	1 st two digits are significant, 3rd digit denotes number of zeros. R= Decimal 5R0: 5.0 pF 100: 10 pF 330: 33 pF 471: 470 pF 102: 1000 pF	J: ± 5% K: ± 10% M: ± 20%	302: 3 KVDC 502: 5 KVDC	V: Ni barrier with 100% Sn	X080: Thickness ≤.080" X100: Thickness ≤.100"	T: Tape & Reel	M: Marked

Murata: GA342QR7GD102KW01L

GA3 Product Series	42 Size	Q Thickness	R7 Dielectric	GD Voltage	102 Capacitance	K Tolerance	W01 Individual Spec Code	L Packaging
GA3: Safety Certified	42: 1808 43: 1812 52: 2221 55: 2220	D: 0.08" Q: 0.060"	1X: SL R7: X7R	GB: X2 GC: X1 GD: Y3 GF: Y2	1 st two digits are significant, 3rd digit denotes number of zeros. R= Decimal 5R0: 5.0 pF 100: 10 pF 330: 33 pF 471: 470 pF 102: 1000 pF	J: ± 5% K: ± 10% M: ± 20%		L: 7" Reel



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Syfer: 1808JA250102KXTSP

1808 EIA Size	J Termination	A25 Voltage	0102 Capacitance	K Tolerance	X Dielectric	T Packaging	SPU Type
1808 1812 2211 2220	J: Ni barrier Y: Flexicap	A25: 250VAC	First digit is 0. 2nd and 3rd digits are significant. The 4th digit denotes number of zeros. P= Decimal 5P00: 5.0 pF 0100: 10 pF 0330: 33 pF 0471: 470 pF 0102: 1000 pF	C: ± 0.25pF D: ± 0.50pF F: ± 1% G: ± 2% J: ± 5% K: ± 10% M: ± 20%	C: COG/NPO X: X7R	T: 7" Reel R: 13" Reel B: Bulk	SY2: Safety Cap (Unmarked)* Y2: Safety Cap (Marked)* SP: Safety Cap (Marked)* SP : Safety Cap (Unmarked)* B16: X1/Y2* B17: X2*

Kyocera: CF42X7R102K2000ATY3

CF Product Series	42 EIA Size	X7R Dielectric	102 Capacitance	K Tolerance	2000 Voltage	A Termination	T Packaging	Y3 Type
CF: High Voltage	42:1808 52: 2208 53: 2211	CH: 0±60ppm X7R: X7R	1st two digits are significant, 3rd digit denotes number of zeros. R= Decimal 5R0: 5.0 pF 100: 10 pF 330: 33 pF 471: 470 pF 102: 1000 pF	J: ± 5% K: ± 10% M: ± 20%	2000: 2 KV 3000: 3KV	A: Ni barrier	T: 7" Reel B: Bulk	Y2: Y2 Y3: Y3

* Contact the factory for more information