

KEMET High Capacitance Ceramic Chip Capacitors



KEMET HICV MLCC

Higher Capacitance, Higher Value

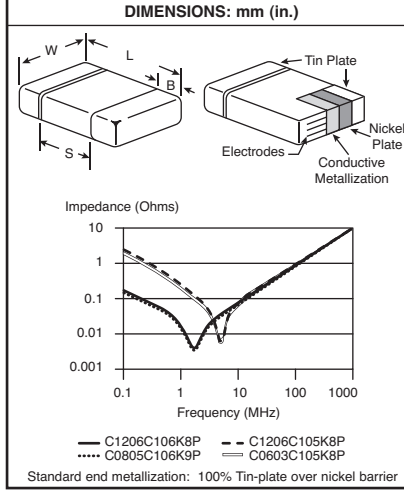
KEMET Electronics is the preferred capacitor supplier to the world's most demanding customers. KEMET is dedicated to meeting and exceeding the industries ever increasing high capacitance needs through continuous enhancement & expansion of their high CV MLCC portfolio.

The operating temperature range is between -55°C and +85°C for the X5R MLCC and between -55°C and +125°C for the X7R MLCC, with zero bias capacitance shift limited to ±15% over those ranges. EIA case sizes 0402 and 1210 are suitable for reflow soldering only. All parts incorporate KEMET's standard barrier layer of pure nickel with an overplate of pure tin to provide excellent solderability as well as resistance to leaching. EIA case sizes 0603 up to 1206 are suitable for reflow and wave soldering. All parts are environmentally friendly, in compliance with the RoHS legislation.

This product is RoHS compliant.



RoHS Compliant

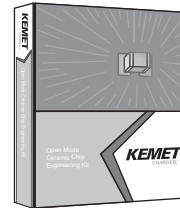


CAPACITOR ENGINEERING KIT

• 20 pieces of each value

RoHS Compliant

Kit Includes:			
Case Size	Volt (DC)	Value (µF)	Temp. Coef.
0402	16	0.1	X7R
0402	6.3	1	X5R
0603	200	0.01	X7R
0603	50	0.1	X7R
0603	16	1	X5R
0603	6.3	2.2, 4.7	X5R
0805	100	0.12	X7R
0805	50	0.22	X7R
0805	16	2.2	X7R
0805	10	4.7	X5R
0805	6.3	10	X5R
1206	50	0.68	X7R
1206	25	1	X7R
1206	25	4.7	X5R
1206	10	10	X7R
1206	16	10	X5R
1206	6.3	22	X5R
1210	16	22	X5R
1210	6.3	47	X5R



MOUSER STOCK NO.	Price Each
80-CERKIT07-HIGHCV	\$0.00

Ceramic Caps, SMD

KEMET

EIA Size Code	L (Length)	W (Width)	B (Bandwidth)	S Min. (Separation)
* 0402	1.0 (.04)	0.5 (.02)	0.20 (0.008)	0.3 (.012)
* 0603	1.6 (.063)	0.8 (.032)	0.35 (.014)	0.7 (.028)
* 0805	2.0 (.079)	1.25 (.049)	0.5 (.02)	0.75 (.030)
* 1206	3.2 (.126)	1.6 (.063)	0.5 (.02)	N/A
* 1210	3.2 (.126)	2.5 (.098)	0.5 (.02)	N/A
1812	4.5 (.177)	3.2 (.126)	0.6 (.024)	N/A
2220	5.6 (.220)	5.0 (.197)	0.6 (.024)	N/A

* Note: Indicates EIA preferred case sizes (tightened tolerances apply for 0402, 0603, and 0805 packaged in bulk cassette)

EIA Case Size 0402

Please call a Mouser representative for information of product not listed.

MOUSER STOCK NO.	KEMET Part No.	Value (µF)	Volt (DC)	Tol.±	Thickness (mm)	Price Each		Reel Qty. (7")	Price per Piece
						1	100		
Temperature Coefficient X5R									
80-C0402C105K9P	C0402C105K9PACTU	1.0	6.3	10%	.50±0.05	.03	.025	10000	.015
80-C0402C225M9P	C0402C225M9PACTU	2.2	6.3	20%	.50±0.05	1.25	.75	10000	.31

EIA Case Size 0603

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MOUSER STOCK NO.	KEMET Part No.	Value (µF)	Volt (DC)	Tol.±	Thickness (mm)	Price Each		Reel Qty. (7")	Price per Piece
						1	100		
Temperature Coefficient X5R									
80-C0603C105K9P	C0603C105K9PACTU	1.0	6.3	10%	.80±0.10	.19	.12	4000	.07
80-C0603C105K8P	C0603C105K8PACTU	1.0	10	10%	.80±0.10	.19	.02	4000	.007
80-C0603C105K4P	C0603C105K4PACTU	1.0	16	10%	.80±0.10	.07	.04	4000	.012
80-C0603C105K3P	C0603C105K3PACTU	1.0	2.5	10%	.80±15	.10	.06	4000	.04
80-C0603C225K8P	C0603C225K8PACTU	2.2	10	10%	.80±0.10	.50	.32	4000	.08
80-C0603C475K9P	C0603C475K9PACTU	4.7	6.3	10%	.80±0.10	.55	.35	4000	.09
80-C0603C106M9P	C0603C106M9PACTU	1.0	6.3	20%	.80±15	.62	.31	4000	.095
Temperature Coefficient Y5V									
80-C0603C105Z8V	C0603C105Z8VACTU	1.0	10	+80,-20	.80±0.10	.05	.02	4000	.009
Temperature Coefficient X7R									
80-C0603C105K4R	C0603105K4RACTU	1.0	16	10%	.80±15	.17	.10	4000	.06

EIA Case Size 0805

Please call a Mouser representative for information of product not listed.

MOUSER STOCK NO.	KEMET Part No.	Value (µF)	Volt (DC)	Tol.±	Thickness (mm)	Price Each		Reel Qty. (7")	Price per Piece
						1	100		
Temperature Coefficient X5R									
80-C0805C105K4P	C0805C105K4PACTU	1.0	16	10%	1.25±0.15	.08	.05	2500	.02
80-C0805C105K3P	C0805C105K3PACTU	1.0	25	10%	1.25±0.15	.46	.32	2500	.08
80-C0805C225K9P	C0805C225K9PACTU	2.2	6.3	10%	0.9±0.1	.34	.156	4000	.056
80-C0805C225K8P	C0805C225K8PACTU	2.2	10	10%	0.9±0.1	.41	.26	2500	.066
80-C0805C225K4P	C0805C225K4PACTU	2.2	16	10%	0.9±0.1	.41	.33	2500	.07
80-C0805C475K9P	C0805C475K9PACTU	4.7	6.3	10%	1.25±0.2	.18	.078	2500	.022
80-C0805C475K8P	C0805C475K8PACTU	4.7	10	10%	1.25±0.2	.26	.097	2500	.027
80-C0805C475K4P	C0805C475K4PACTU	4.7	16	10%	1.25±0.2	.56	.42	2500	.13
80-C0805C106K9P	C0805C106K9PACTU	10	6.3	10%	1.25±0.2	.24	.14	3000	.04
80-C0805C106K8P	C0805C106K8PACTU	10	10	10%	1.25±0.2	1.20	.78	2500	.21
80-C0805C226M9P	C0805C226M9PACTU	22	6.3	20%	1.25±0.2	.63	.318	2500	.088
Temperature Coefficient Y5V									
80-C0805C225Z4V	C0805C225Z4VACTU	2.2	16	+80,-20	1.25±0.15	.82	.42	2500	.118
80-C0805C475Z8V	C0805C475Z8VACTU	4.7	10	+80,-20	1.25±0.15	1.03	.61	2500	.169
80-C0805C106Z9V	C0805C106Z9VACTU	10	6.3	+80,-20	1.25±0.2	.95	.37	3000	.178
Temperature Coefficient X7R									
80-C0805C105K9R	C0805C105K9RACTU	1.0	6.3	10%	1.25±0.15	1.00	.65	2500	.16
80-C0805C105K4R	C0805C105K4RACTU	1.0	16	10%	1.25±0.15	.09	.05	2500	.02
80-C0805C225K9R	C0805C225K9RACTU	2.2	6.3	10%	1.25±0.15	.32	.208	2500	.051
80-C0805C225K8R	C0805C225K8RACTU	2.2	10	10%	1.25±0.15	.32	.20	2500	.058
80-C0805C225K4R	C0805C225K4RACTU	2.2	16	10%	1.25±0.15	.45	.29	2500	.072

EIA Case Size 1206

Please call a Mouser representative for information of product not listed.

MOUSER STOCK NO.	KEMET Part No.	Value (µF)	Volt (DC)	Tol.±	Thickness (mm)	Price Each		Reel Qty. (7")	Price per Piece
						1	100		
Temperature Coefficient X5R									
80-C1206C105K3P	C1206C105K3PACTU	1.0	25	10%	1.6±0.2	1.32	.86	2000	.211
80-C1206C225K4P	C1206C225K4PACTU	2.2	16	10%	1.1±0.1	.38	.248	2500	.061
80-C1206C475K4P	C1206C475K4PACTU	4.7	16	10%	1.6±0.2	.35	.161	2000	.045
80-C1206C475K3P	C1206C475K3PACTU	4.7	25	10%	1.6±0.2	.60	.443	2000	.123
80-C1206C106K9P	C1206C106K9PACTU	10	6.3	10%	1.15±0.15	.30	.143	2000	.04
80-C1206C106K8P	C1206C106K8PACTU	10	10	10%	1.15±0.15	.65	.42	2000	.13
80-C1206C106K4P	C1206C106K4PACTU	10	16	10%	1.6±0.2	.36	.203	2000	.06
80-C1206C106K3P	C1206C106K3PACTU	10	25	10%	1.6±0.2	.63	.38	2000	.16
80-C1206C226K9P	C1206C226K9PACTU	22	6.3	10%	1.6±0.2	1.80	.442	2000	.122
80-C1206C476M9P	C1206C476M9PACTU	47	6.3	20%	1.25±0.2	2.00	.975	2000	.352
80-C1206C107M9P	C1206C107M9PACTU	100	6.3	20%	1.6±0.2	4.00	2.60	2000	.64
80-C1206C226M8P	C1206C226M8PACTU	22	10	20%	1.6±0.15	.91	.46	2000	.21

