

KEMET High Capacitance Ceramic Chip Capacitors

KEMET HICV MLCC

Higher Capacitance, Higher Value

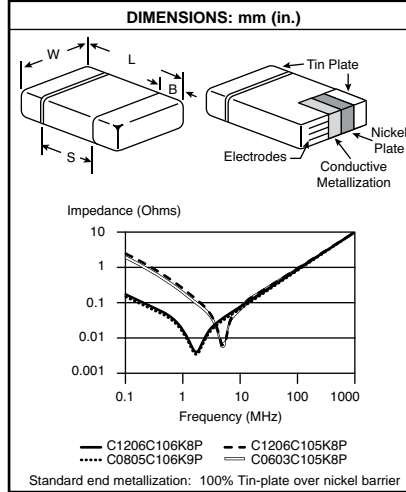
KEMET Electronics is the preferred capacitor supplier to the world's most demanding customers. KEMET is dedicated to meeting and exceeding the industries ever increasing high capacitance needs through continuous enhancement & expansion of their high CV MLCC portfolio.

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.

RoHS Compliant This product is RoHS compliant.



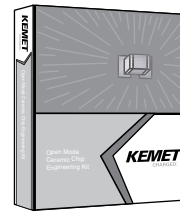
RoHS Compliant



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	0.1	X7R	
0603	50	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	

EIA Size Code	L (Length)	W (Width)	B (Bandwidth)	S Min. (Separation)	* Note: Indicates EIA preferred case sizes (tightened tolerances apply for 0402, 0603, and 0805 packaged in bulk cassette)
* 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	

MOUSER STOCK NO.	Price Each
80-CERENKIT07	

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			10000	
80-C0402C225M9P	C0402C225M9PACTU	2.2	6.3	20%	.50±0.05			10000	

EIA Case Size 0603

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-C0603C105K9P	C0603C105K9PACTU	1.0	6.3	10%	.80±.10			4000	
80-C0603C105K8P	C0603C105K8PACTU	1.0	10	10%	.80±.10			4000	
80-C0603C105K4P	C0603C105K4PACTU	1.0	16	10%	.80±.10			4000	
80-C0603C105K3P	C0603C105K3PACTU	1.0	2.5	10%	.80±.15			4000	
80-C0603C225K8P	C0603C225K8PACTU	2.2	10	10%	.80±.10			4000	
80-C0603C475K9P	C0603C475K9PACTU	4.7	6.3	10%	.80±.10			4000	
80-C0603C106M9P	C0603C106M9PACTU	1.0	6.3	20%	.80±.15			4000	
Temperature Coefficient X7R									
80-C0603C105Z8V	C0603C105Z8VACTU	1.0	10	+80,-20	.80±.10			4000	
Temperature Coefficient X7R									
80-C0603C105K4R	C0603C105K4RACTU	1.0	16	10%	.80±.15			4000	

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			2500	
80-C0805C105K3P	C0805C105K3PACTU	1.0	25	10%	1.25±0.15			2500	
80-C0805C225K9P	C0805C225K9PACTU	2.2	6.3	10%	0.9±0.1			4000	
80-C0805C225K8P	C0805C225K8PACTU	2.2	10	10%	0.9±0.1			2500	
80-C0805C225K4P	C0805C225K4PACTU	2.2	16	10%	0.9±0.1			2500	
80-C0805C475K9P	C0805C475K9PACTU	4.7	6.3	10%	1.25±0.2			2500	
80-C0805C475K8P	C0805C475K8PACTU	4.7	10	10%	1.25±0.2			2500	
80-C0805C475K4P	C0805C475K4PACTU	4.7	16	10%	1.25±0.2			3000	
80-C0805C106K9P	C0805C106K9PACTU	10	6.3	10%	1.25±0.2			2500	
80-C0805C106K8P	C0805C106K8PACTU	10	10	10%	1.25±0.2			2500	
80-C0805C226M9P	C0805C226M9PACTU	22	6.3	20%	1.25±0.2			2500	
Temperature Coefficient X5V									
80-C0805C225Z4V	C0805C225Z4VACTU	2.2	16	+80,-20	1.25±0.15			2500	
80-C0805C475Z8V	C0805C475Z8VACTU	4.7	10	+80,-20	1.25±0.15			2500	
80-C0805C106Z9V	C0805C106Z9VACTU	10	6.3	+80,-20	1.25±0.2			3000	
Temperature Coefficient X7R									
80-C0805C105K9R	C0805C105K9RACTU	1.0	6.3	10%	1.25±0.15			2500	
80-C0805C105K4R	C0805C105K4RACTU	1.0	16	10%	1.25±0.15			2500	
80-C0805C225K9R	C0805C225K9RACTU	2.2	6.3	10%	1.25±0.15			2500	
80-C0805C225K8R	C0805C225K8RACTU	2.2	10	10%	1.25±0.15			2500	
80-C0805C225K4R	C0805C225K4RACTU	2.2	16	10%	1.25±0.15			2500	

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			2000	
80-C1206C225K4P	C1206C225K4PACTU	2.2	16	10%	1.1±0.1			2500	
80-C1206C475K4P	C1206C475K4PACTU	4.7	16	10%	1.6±0.2			2000	
80-C1206C475K3P	C1206C475K3PACTU	4.7	25	10%	1.6±0.2			2000	
80-C1206C106K9P	C1206C106K9PACTU	10	6.3	10%	1.15±0.15			2000	
80-C1206C106K8P	C1206C106K8PACTU	10	10	10%	1.15±0.15			2000	
80-C1206C106K4P	C1206C106K4PACTU	10	16	10%	1.6±0.2			2000	
80-C1206C106K3P	C1206C106K3PACTU	10	25	10%	1.6±0.2			2000	
80-C1206C226K9P	C1206C226K9PACTU	22	6.3	10%	1.6±0.2			2000	
80-C1206C476M9P	C1206C476M9PACTU	47	6.3	20%	1.25±0.2			2000	
80-C1206C107M9P	C1206C107M9PACTU	100	6.3	20%	1.6±0.2			2000	
80-C1206C226M8P	C1206C226M8PACTU	22	10	20%	1.6±0.15			2000	

EIA Case Size 1206 (Cont.)

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 X5V									
80-C1206C105Z3V	C1206C105Z3VACTU	1.0	25	+80,-20	0.78±0.1			2000	
80-C1206C475Z4V	C1206C475Z4VACTU	4.7	16	+80,-20	1.0±0.15			2500	
80-C1206C106Z8V	C1206C106Z8VACTU	10	10	+80,-20	1.7±0.2			2000	
80-C1206C226Z9V	C1206C226Z9VACTU	22	6.3	+80,-20	1.7±0.2			2000	
Temperature Coefficient X7R									
80-C1206C105K3R	C1206C105K3RACTU	1.0	25	10%	1.6±0.15			2000	
80-C1206C105K5R	C1206C105K5RACTU	1.0	50	10%	1.0±0.1			2500	
80-C1206C225K3R	C1206C225K3RACTU	2.2	25	10%	1.2±0.15			2500	
80-C1206C225K5R	C1206C225K5RACTU	2.2	50	10%	1.6±0.2			2000	
80-C1206C475K8R	C1206C475K8RACTU	4.7	10	10%	1.25±0.15			2500	
80-C1206C475K4R	C1206C475K4RACTU	4.7	16	10%	1.25±0.15			2500	
80-C1206C475K3R	C1206C475K3RACTU	4.7	25	10%	1.6±0.2			2000	
80-C1206C106K8R	C1206C106K8RACTU	10	10	10%	1.6±0.2			2000	
80-C1206C106K4R	C1206C106K4RACTU	10	16	10%	1.6±0.2			2000	

EIA Case Size 1210

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-C1210C105K5P	C1210C105K5PACTU	1.0	50	10%	1.55±0.15			2000	
80-C1210C475K4P	C1210C475K4PACTU	4.7	16	10%	2.1±0.2			2000	
80-C1210C475K3P	C1210C475K3PACTU	4.7	25	10%	2.1±0.2			2000	
80-C1210C106K3P	C1210C106K3PACTU	10	25	10%	2.1±0.2			2000	
80-C1210C106K4P	C1210C106K4PACTU	10	16	10%	2.1±0.2			2000	
80-C1210C106K9P	C1210C106K9PACTU	10	6.3	10%	2.1±0.2			2000	
80-C1210C226K4P	C1210C226K4PACTU	22	16	10%	1.85±0.2			2000	
80-C1210C476M9P	C1210C476M9PACTU	47	6.3	20%	1.7±0.2			1500	
80-C1210C107M9P	C1210C107M9PACTU	100	6.3	20%	2.1±0.2			1500	
Temperature Coefficient X5V									
80-C1210C105Z5V	C1210C105Z5VACTU	1.0	50	+80,-20	1.55±0.15			2000	
80-C1210C106Z4V	C1210C106Z4VACTU	10	16	+80,-20	1.55±0.15			2000	
80-C1210C226M8V	C1210C226M8VACTU	22	10	20%	2.5±0.2			2000	
80-C1210C226Z8V	C1210C226Z8VACTU	22	10	+80,-20	1.55±0.15			1500	
Temperature Coefficient X7R									
80-C1210C105K5R	C1210C105K5RACTU	1.0	50	10%	1.55±0.15			2000	
80-C1210C225K4R	C1210C225K4RACTU	2.2	16	10%	1.85±0.2			2000	
80-C1210C225K3R	C1210C225K3RACTU	2.2	25	10%	1.85±0.2			2000	
80-C1210C225K5R	C1210C225K5RACTU	2.2	50	10%	1.25±0.15			2500	
80-C1210C335K5R	C1210C335K5RACTU	3.3	50	10%	1.70±0.2			2000	
80-C1210C475K9R	C1210C475K9RACTU	4.7	6.3	10%	.90±0.1			2000	
80-C1210C475K8R	C1210C475K8RACTU	4.7	10	10%	.90±0.1			2000	
80-C1210C475K4R	C1210C475K4RACTU	4.7	16	10%	.90±0.1			2000	
80-C1210C475K3R	C1210C475K3RACTU	4.7	25	10%	1.25±0.15			2500	
80-C1210C106K9R	C1210C106K9RACTU	10	6.3	10%	1.55±0.15			2000	
80-C1210C106K8R	C1210C106K8RACTU	10	10	10%	1.55±0.15			2000	