

KEMET Automotive Multilayer Ceramic Chip Capacitors

The Capacitance Company
KEMET
CHARGED.

RoHS Compliant This product is RoHS compliant.

Features:

- Operating temperature range: -55°C to +125°C
- AEC Q200 automotive qualified
- Temperature stable dielectric
- Non-polar device, minimizing installation concerns
- 100% pure matte tin-plated termination finish allowing for excellent solderability

Applications:

- Decoupling
- Bypass
- Filtering
- Transient voltage suppression



EIA Size Code	Metric Size Code	L Length	W Width	T Thickness	B Bandwidth	S Separation Min.	Mounting Technique
0402	1005	1.00(.40) ± 0.05(.002)	0.50(.20) ± 0.05(.002)	0.50 ± 0.05	0.30(.012) ± 0.10(.004)	0.30(.012)	Solder reflow only
0603	1608	1.60(.063) ± 0.15(.006)	0.80(.032) ± 0.15(.006)	0.80 ± 0.07	0.35(.014) ± 0.15(.006)	0.70(.028)	Solder wave or solder reflow
0805	2012	2.00(.079) ± 0.20(.008)	1.25(.049) ± 0.20(.008)	0.78 ± 0.10	0.50(.02) ± 0.25(.010)	0.75(.030)	Solder wave or solder reflow
1206	3216	3.20(.126) ± 0.20(.008)	1.60(.063) ± 0.20(.008)	0.78 ± 0.10	0.50(.02) ± 0.25(.010)	N/A	Solder reflow only
1210	3225	3.20(.126) ± 0.20(.008)	2.50(.098) ± 0.20(.008)	2.50 ± 0.20	0.50(.02) ± 0.25(.010)	N/A	Solder reflow only

STANDARD MODE

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	KEMET Part No.	Case Size	Value (pF)	Temperature Coefficient	Tol. ±	Price Each				Reel Qty.	Price Per Piece
						1	50	100	500		
10 Volts											
80-C0805C105K8RAUTO	C0805C105K8RACAUTO	0805	1uF	X7R	10%	.17	.104	.061	.056	4000	.43
80-C1206C106K8RAUTO	C1206C106K8RACAUTO	1206	10uF	X7R	10%	1.10	.88	.65	.54	2000	.36
16 Volts											
80-C0402C104K4RAUTO	C0402C104K4RACAUTO	0402	0.1uF	X7R	10%	.07	.044	.026	.024	10000	.015
80-C0603C104K4RAUTO	C0603C104K4RACAUTO	0603	0.1uF	X7R	10%	.28	.22	.17	.10	4000	.047
80-C0805C105K4RAUTO	C0805C105K4RACAUTO	0805	1uF	X7R	10%	.17	.104	.061	.056	4000	.043
80-C1206C106K4RAUTO	C1206C106K4RACAUTO	1206	10uF	X7R	10%	1.10	.88	.65	.54	2000	.36
25 Volts											
80-C0402C821K3RAUTO	C0402C821K3RACAUTO	0402	820	X7R	10%	.42	.35	.27	.20	10000	.09
80-C0603C104K3RAUTO	C0603C104K3RACAUTO	0603	0.1uF	X7R	20%	.07	.06	.05	.033	4000	.026
80-C0805C473J3GAUTO	C0805C473J3GACAUTO	0805	0.047uF	C0G	5%	.77	.56	.38	.35	2500	.15
80-C0805C224K3RAUTO	C0805C224K3RACAUTO	0805	0.22uF	X7R	10%	.15	.089	.052	.048	4000	.037
80-C0805C474K3RAUTO	C0805C474K3RACAUTO	0805	0.47uF	X7R	10%	.21	.123	.072	.067	4000	.051
80-C1206C105K3RAUTO	C1206C105K3RACAUTO	1206	1uF	X7R	10%	.31	.30	.15	.097	2000	.075
50 Volts											
80-C0603C220J5GAUTO	C0603C220J5GACAUTO	0603	22	C0G	5%	.12	.10	.08	.05	4000	.017
80-C0603C470J5GAUTO	C0603C470J5GACAUTO	0603	47	C0G	5%	.24	.15	.06	.034	4000	.021
80-C0603C101J5GAUTO	C0603C101J5GACAUTO	0603	100	C0G	5%	.20	.17	.14	.121	4000	.08
80-C0603C181J5GAUTO	C0603C181J5GACAUTO	0603	180	C0G	5%	.08	.055	.038	.029	4000	.014
80-C0603C221J5GAUTO	C0603C221J5GACAUTO	0603	220	C0G	5%	.09	.058	.04	.031	4000	.014
80-C0603C331J5GAUTO	C0603C331J5GACAUTO	0603	330	C0G	5%	.34	.22	.18	.128	4000	.075
80-C0603C471J5GAUTO	C0603C471J5GACAUTO	0603	470	C0G	5%	.10	.083	.067	.046	4000	.034
80-C0603C102K5RAUTO	C0603C102K5RACAUTO	0603	1000	X7R	10%	.07	.06	.04	.031	4000	.017
80-C0603C102M5RAUTO	C0603C102M5RACAUTO	0603	1000	X7R	20%	.15	.092	.054	.05	4000	.038
80-C0603C222K5RAUTO	C0603C222K5RACAUTO	0603	2200	X7R	10%	.07	.05	.04	.025	4000	.019
80-C0603C332K5RAUTO	C0603C332K5RACAUTO	0603	3300	X7R	10%	.09	.052	.03	.028	4000	.022
80-C0603C472K5RAUTO	C0603C472K5RACAUTO	0603	4700	X7R	10%	.12	.10	.08	.05	4000	.019
80-C0603C473K5RAUTO	C0603C473K5RACAUTO	0603	0.047uF	X7R	10%	.33	.22	.17	.104	4000	.057
80-C0603C103K5RAUTO	C0603C103K5RACAUTO	0603	0.01uF	X7R	10%	.07	.05	.04	.03	4000	.017
80-C0603C103M5RAUTO	C0603C103M5RACAUTO	0603	0.01uF	X7R	20%	.07	.06	.05	.033	4000	.026
80-C0603C104J5RAUTO	C0603C104J5RACAUTO	0603	0.1uF	X7R	5%	.08	.05	.029	.027	4000	.021
80-C0603C104K5RAUTO	C0603C104K5RACAUTO	0603	0.1uF	X7R	10%	.09	.052	.03	.028	4000	.022
80-C0805C101J5GAUTO	C0805C101J5GACAUTO	0805	100	C0G	5%	.34	.22	.18	.128	4000	.075
80-C0805C221J5GAUTO	C0805C221J5GACAUTO	0805	220	C0G	5%	.11	.093	.07	.05	4000	.022
80-C0805C471J5GAUTO	C0805C471J5GACAUTO	0805	470	C0G	5%	.25	.19	.16	.118	4000	.06
80-C0805C102K5RAUTO	C0805C102K5RACAUTO	0805	1000	X7R	10%	.08	.047	.027	.025	4000	.02
80-C0805C222K5RAUTO	C0805C222K5RACAUTO	0805	2200	X7R	10%	.08	.07	.052	.038	4000	.016
80-C0805C223K5RAUTO	C0805C223K5RACAUTO	0805	0.022uF	X7R	10%	.13	.11	.08	.062	4000	.037
80-C0805C473K5RAUTO	C0805C473K5RACAUTO	0805	0.047uF	X7R	10%	.10	.087	.065	.047	4000	.021
80-C0805C334K5RAUTO	C0805C334K5RACAUTO	0805	0.33uF	X7R	10%	.26	.21	.17	.13	4000	.07
80-C0805C474K5RAUTO	C0805C474K5RACAUTO	0805	0.47uF	X7R	10%	.26	.21	.17	.13	2500	.07
80-C0805C103K5RAUTO	C0805C103K5RACAUTO	0805	0.01uF	X7R	10%	.08	.047	.027	.025	4000	.02
80-C0805C104K5RAUTO	C0805C104K5RACAUTO	0805	0.1uF	X7R	10%	.09	.052	.03	.028	4000	.022
80-C1206C332J5GAUTO	C1206C332J5GACAUTO	1206	3300	C0G	5%	.46	.26	.21	.154	4000	.08
80-C1206C103K5RAUTO	C1206C103K5RACAUTO	1206	0.01uF	X7R	10%	.12	.10	.08	.055	4000	.023
80-C1206C104K5RAUTO	C1206C104K5RACAUTO	1206	0.1uF	X7R	10%	.25	.20	.16	.118	4000	.05
80-C1206C225K5RAUTO	C1206C225K5RACAUTO	1206	2.2uF	X7R	10%	.45	.38	.28	.156	2000	.091
80-C1210C224K5RAUTO	C1210C224K5RACAUTO	1210	0.22uF	X7R	10%	.33	.21	.117	.082	4000	.052
80-C1210C105M5RAUTO	C1210C105M5RACAUTO	1210	1uF	X7R	20%	.56	.45	.43	.38	2000	.33
80-C1210C225K5RAUTO	C1210C225K5RACAUTO	1210	2.2uF	X7R	10%	1.85	1.01	.81	.58	2500	.35
80-C1210C475K5RAUTO	C1210C475K5RACAUTO	1210	47uF	X7R	10%	1.52	1.42	1.29	1.14	1000	.91
100 Volts											
80-C0603C221K1RAUTO	C0603C221K1RACAUTO	0603	220	X7R	10%	.34	.22	.18	.128	4000	.075
80-C0603C102K1RAUTO	C0603C102K1RACAUTO	0603	1000	X7R	10%	.10	.058	.034	.032	4000	.024
80-C0805C102K1RAUTO	C0805C102K1RACAUTO	0805	1000	X7R	10%	.33	.25	.17	.104	4000	.057
80-C1206C104K1RAUTO	C1206C104K1RACAUTO	1206	0.1uF	X7R	10%	.31	.19	.08	.056	4000	.047
80-C1210C105K1RAUTO	C1210C105K1RACAUTO	1210	1uF	X7R	10%	2.10	1.39	.68	.49	2000	.44
200 Volts											
80-C0805C101K2GAUTO	C0805C101K2GACAUTO	0805	100	C0G	10%	.18	.15	.12	.087	4000	.045
80-C0805C102K2RAUTO	C0805C102K2RACAUTO	0805	1000	X7R	10%	.35	.27	.23	.164	4000	.07
80-C0805C103K2RAUTO	C0805C103K2RACAUTO	0805	0.01uF	X7R	10%	.15	.09	.053	.049	4000	.038
80-C1206C473K2RAUTO	C1206C473K2RACAUTO	1206	0.047uF	X7R	10%	1.65	1.32	1.07	.77	2500	.36

OPEN MODE

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	KEMET Part No.	Case Size	Value (pF)	Temperature Coefficient	Tol. ±	1	50	100	500	Reel Qty.	Price Per Piece
50 Volts											
80-C0805F473K5RAUTO	C0805F473K5RACAUTO	0805	0.047uF	X7R	10%	.39	.23	.13	.126	4000	.098
80-C0805F104K5RAUTO	C0805F104K5RACAUTO	0805	0.1uF	X7R	10%	.55	.33	.19	.18	2500	.14
80-C0805F104M5RAUTO	C0805F104M5RACAUTO	0805	0.1uF	X7R	20%	.55	.33	.19	.18	2500	.14
100 Volts											
80-C1206F104K1RAUTO	C1206F104K1RACAUTO	1206	0.1uF	X7R	10%	.80	.44	.36	.34	4000	.30

FLOATING ELECTRODE

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	KEMET Part No.	Case Size	Value (pF)	Temperature Coefficient	Tol. ±	1	50	100	500	Reel Qty.	Price Per Piece
100 Volts											
80-C0805F473K5RAUTO	C0805F473K5RACAUTO	0805	0.047uF	X7R	10%	.39	.23	.13	.126	4000	.098

FLEXIBLE TERMINATION

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	KEMET Part No.	Case Size	Value (pF)	Temperature Coefficient	Tol. ±	1	50	100	500	Reel Qty.	Price Per Piece
50 Volts											
80-C0603X471J5RAUTO	C0603X471J5RACAUTO	0603	470	X7R	5%	.35	.28	.23	.18	4000	.11
80-C0603X104J5RAUTO	C0603X104J5RACAUTO	0603	0.1uF	X7R	5%	.35	.28	.23	.18	4000	.11
80-C1210X475K5RAUTO	C1210X475K5RACAUTO	1210	4.7uF	X7R	10%	2.74	1.64	.96	.89	1000	.82

