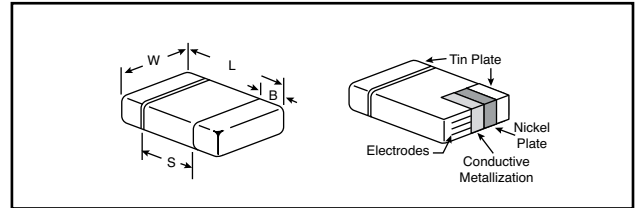


# KEMET High Temperature Ceramic Chip Capacitors

The Capacitance Company  
**KEMET**  
CHARGED™

RoHS Compliant This product is RoHS compliant.

EIA Size Code	Metric Size Code	DIMENSIONS: mm (in.)			
		L Length	W Width	B Bandwidth	S Min. Separation
0402	1005	1.0 (.04) ± .05 (.002)	0.5 (.02) ± .05 (.002)	0.30 (.12) ± .10 (.004)	0.3 (.012)
0603	1608	1.6 (.063) ± .15 (.006)	0.8 (.032) ± .15 (.006)	0.35 (.014) ± .15 (.006)	.07 (.028)
0805	2012	2.0 (.079) ± .20 (.008)	1.25 (.049) ± .20 (.008)	0.50 (.020) ± .25 (.010)	.075 (.030)
1206	3216	3.2 (.126) ± .20 (.008)	1.6 (.063) ± .20 (.008)	0.50 (.020) ± .25 (.010)	N/A
1210	3225	3.2 (.126) ± .20 (.008)	2.5 (.098) ± .20 (.008)	0.50 (.020) ± .25 (.010)	N/A
1812	4532	4.5 (.177) ± .30 (.012)	3.2 (.126) ± .30 (.012)	0.60 (.024) ± .35 (.014)	N/A



## KEMET HIGH TEMPERATURE 200°C C0G MLCC

KEMET's New High Temperature Surface Mount C0G MLCCs feature a robust and proprietary base metal dielectric system that offers industry-leading performance relative to capacitance and case size combined with capacitance stability at extreme temperatures up to +200°C. This new platform promotes downsizing opportunities of existing High Temperature C0G technology, and offers replacement opportunities of existing X7R/BX/BR technologies.

### Benefits and Features:

- No piezoelectric properties.
- Extremely low ESR and ESL.
- High thermal stability.
- High ripple current capability.
- Preferred capacitance solution at line frequencies and into the MHz range.
- No capacitance change with respect to applied rated DC voltage.
- No capacitance change with respect to temperature from -55 to +200°C.
- No capacitance decay with time.
- Non - polar device

### Applications:

- Typical applications include timing, tuning, decoupling, by-pass, filtering, transient voltage suppression, blocking and energy storage for use in extreme environments coupled with down-hole exploration, aerospace engine compartments and geophysical probes.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	KEMET Part No.	Case Size	Value (pF)	Volt (DC)	Tolerance ±	Price Each			Reel Quantity	Price per Piece
						1	50	100		
80-C0603H103J3G	C0603H103J3GACT500	0603	10000	25	5%				500	
80-C0805H103J1G	C0805H103J1GACT500	0805	10000	100	5%				500	
80-C0805H103J5G	C0805H103J5GACT500	0805	10000	500	5%				500	
80-C0805H333J4G	C0805H333J4GACT500	0805	33000	16	5%				500	
80-C1206H103J5G	C1206H103J5GACT500	1206	10000	50	5%				500	
80-C1206H103J1G	C1206H103J1GACT500	1206	10000	100	5%				500	
80-C1206H473J5G	C1206H473J5GACT500	1206	47000	50	5%				500	
80-C1206H473J1G	C1206H473J1GACT500	1206	47000	100	5%				500	
80-C1206H104J3G	C1206H104J3GACT500	1206	0.1uF	25	5%				500	
80-C1210H104J5G	C1210H104J5GACT500	1210	0.1uF	50	5%				500	
80-C1210H104J1G	C1210H104J1GACT500	1210	0.1uF	100	5%				500	
80-C1812H104J5G	C1812H104J5GACT500	1812	0.1uF	50	5%				500	
80-C1812H104J1G	C1812H104J1GACT500	1812	0.1uF	100	5%				500	
80-C1812H224J5G	C1812H224J5GACT500	1812	0.22uF	50	5%				500	

## KEMET 150° HIGH TEMPERATURE X8L DIELECTRIC

KEMET's X8L Dielectric offers an operating temperature range from -55°C to +150°C with capacitance shift limited to ±15% from -55°C to +125°C and +15, -40% from 125°C to 150°C. Product applications include harsh environments such as Down Hole (Oil Exploration), Automotive (Under Hood), Military and Aerospace.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	KEMET Part No.	Case Size	Value (pF)	Volt (DC)	Tolerance ±	Price Each			Reel Quantity	Price per Piece
						1	50	100		
80-C0402C473J8N	C0402C473J8NACTU	0402	47000	10	5%				10000	
80-C0603C224J8N	C0603C224J8NACTU	0603	0.22uF	10	5%				4000	
80-C0603C473K5N	C0603C473K5NACTU	0603	47000	50	10%				4000	
80-C0805C224J5N	C0805C224J5NACTU	0805	0.22uF	50	5%				4000	
80-C0805C334K3N	C0805C334K3NACTU	0805	0.33uF	25	10%				4000	
80-C0805C684J3N	C0805C684J3NACTU	0805	0.68uF	25	5%				2500	
80-C0805C105J8N	C0805C105J8NACTU	0805	1.0uF	10	5%				2500	
80-C1206C474J5N	C1206C474J5NACTU	1206	0.47uF	50	5%				2000	
80-C1206C474K3N	C1206C474K3NACTU	1206	0.47uF	25	10%				2000	
80-C1206C475J8N	C1206C475J8NACTU	1206	4.7uF	10	5%				2000	
80-C1210C105J5N	C1210C105J5NACTU	1210	1.0uF	50	5%				2000	
80-C1210C475J3N	C1210C475J3NACTU	1210	4.7uF	25	5%				1000	
80-C1210C106J8N	C1210C106J8NACTU	1210	10uF	10	5%				1000	

## KEMET 150° ULTRA STABLE X8R DIELECTRIC

KEMET's Ultra Stable X8R Dielectric features a 150°C maximum operating temperature, offering the latest in high temperature dielectric technology and therefore a reliable choice for extreme temperature applications. It offers the same temperature capability as conventional X8R, but without the capacitance loss due to applied DC voltage. Ultra Stable X8R exhibits no capacitance loss and is a suitable replacement for higher capacitance and larger footprint devices that fail to offer capacitance stability. Product applications include harsh environments such as Down Hole (Oil Exploration), Automotive (Under Hood), Military and Aerospace.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	KEMET Part No.	Case Size	Value (pF)	Volt (DC)	Tolerance ±	Price Each			Reel Quantity	Price per Piece
						1	50	100		
80-C0402C102J5H	C0402C102J5HACTU	0402	1000	50	5%				10000	
80-C0402C102K5H	C0402C102K5HACTU	0402	1000	50	10%				10000	
80-C0603C102K5H	C0603C102K5HACTU	0603	1000	50	10%				4000	
80-C0603C222K5H	C0603C222K5HACTU	0603	2200	50	10%				4000	
80-C0603C472J1H	C0603C472J1HACTU	0603	4700	100	5%				4000	
80-C0603C472K5H	C0603C472K5HACTU	0603	4700	50	10%				4000	
80-C0603C103J3H	C0603C103J3HACTU	0603	10000	25	5%				4000	
80-C0603C103K3H	C0603C103K3HACTU	0603	10000	25	10%				4000	
80-C0805C103K5H	C0805C103K5HACTU	0805	10000	50	10%				4000	
80-C0805C153J1H	C0805C153J1HACTU	0805	15000	100	5%				2500	
80-C0805C223J5H	C0805C223J5HACTU	0805	22000	50	5%				2500	
80-C0805C333J3H	C0805C333J3HACTU	0805	33000	25	5%				2500	
80-C1206C103K5H	C1206C103K5HACTU	1206	10000	50	10%				4000	
80-C1206C473J1H	C1206C473J1HACTU	1206	47000	100	5%				2000	
80-C1206C104J3H	C1206C104J3HACTU	1206	100000	25	5%				2000	
80-C1206C104K3H	C1206C104K3HACTU	1206	100000	25	10%				2000	
80-C1210C104J1H	C1210C104J1HACTU	1210	100000	100	5%				2000	
80-C1812C224J5H	C1812C224J5HACTU	1812	220000	50	5%				1000	