



ROADMAP MLCC
2026

Case Size inch (mm)	Capacitance	100	200	300	390	470	560	680	750	820	910	111	151	201	221	271	301	331	391	471	561	681	821	102
	Voltage	10pF	20pF	33pF	39pF	47pF	56pF	68pF	75pF	82pF	91pF	110pF	150pF	200pF	220pF	270pF	300pF	330pF	390pF	470pF	560pF	680pF	820pF	1nF
0201 (0603)	16																							
	25																							
	50																							
	100																							
0402 (1005)	16																							
	25																							
	50																							
	250																							
0603 (1608)	50																							
	100																							
	250																							
0805 (2012)	50																							
	100																							
	250																							

COG / CG / COH – Exhibits stable capacitance with temperature and voltage over the specified range of –55°C to +125°C.

* Additional intermediate capacitance values available.

Case Size inch (mm)	Capacitance	102	222	472	103	223	473	104	224	474	105	225	475	106	226	476	107	
	Voltage	1nF	2.2nF	4.7nF	10nF	22nF	47nF	100nF	220nF	470nF	1µF	2.2µF	4.7µF	10µF	22µF	47µF	100 µF	200 µF
0201 (0603)	4																	
	6,3					X7T	X7T	X7T										
	10	X7R	X7R	X7R	X7R			X6S										
	16	X7R	X7R															
	25	X7R	X7R															
0402 (1005)	4									X7R		X5R	X5R					
	6,3							X7R	X7R	X7R	X7T	X7T	X5R					
	10						X7R	X7R	X7R	X5R	X5R	X5R						
	16				X7R	X7R	X7R	X7R	X7R	X5R	X5R							
	25			X7R	X7R	X7R	X7R	X7R	X5R	X5R								
	50	X7R	X7R	X7R	X7R	X7R	X7R	X7R										
	100	X7R	X7R	X7R	X7R													
0603 (1608)	4													X5R	X5R			
	6,3										X7R	X7R	X7T	X7T				
	10									X7R	X7R	X7T	X7T	X5R				
	16								X7R	X7R	X7R	X5R	X5R					
	25								X7R	X7R	X7R	X5R						
	35								X7R	X7R	X7R							
	50								X7R	X5R	X5R							
	100	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7S									
0805 (2012)	4,0														X7T	X6S		
	6,3												X7R	X7R	X7T			
	10											X7R	X7R	X7R				
	16										X7R	X7R	X7R	X7T				
	25								X7R	X7R	X7R	X7S	X5R					
	35									X7R	X5R							
	50						X7R	X7R	X7R	X7S	X7R							
	100						X7R	X7R	X7R	X7S	X7S							
	250	X7R	X7R	X7R	X7R	X7R	X7R											

X = -55°C, 5 = +85°C, 6 = +105°C, 7 = +125°C – Over the specified temperature range, a capacitance change of ±15% (R) / ±22% (S) / +22% to -33% (T) is permissible.

* Additional intermediate capacitance values available.

Case Size inch (mm)	Capacitance	102	222	472	103	223	473	104	224	474	105	225	475	106	226	476	107
	Voltage	1nF	2.2nF	4.7nF	10nF	22nF	47nF	100nF	220nF	470nF	1µF	2.2µF	4.7µF	10µF	22µF	47µF	100 µF
1206 (3216)	4														X7R	X7S	
	6,3														X7R	X5R	
	10													X7R	X5R		
	16												X7R	X7R	X5R		
	25												X7R	X7R			
	35											X7R	X7R	X5R			
	50										X7R	X7R	X7S				
	100								X7R	X7R	X7R	X7S					
	250					X7R	X7R	X7R									
	630	X7R	X7R	X7R	X7R	X7R	X7R										
1210 (3225)	6,3															X7R	
	10														X7R	X5R	
	16														X7R	X5R	
	25													X7R	X7R		
	35													X7R			
	50												X7R	X7R			
	100											X7R	X7S				
	250						X7R	X7R	X7R								
	630					X7R	X7R										
1812 (4532)	100																
	250							X7R	X7R	X7R							
	630						X7R	X7R									

X = -55°C, 5 = +85°C, 6 = +105°C, 7 = +125°C – Over the specified temperature range, a capacitance change of ±15% (R), ±22% (S), or +22% to -33% (T) is permissible.

* Additional intermediate capacitance values available.

Case Size inch (mm)	Capacitance	102	222	472	103	223	473	104	224	474	105	225	475	106	226	476		
	Voltage	1nF	2.2nF	4.7nF	10nF	22nF	47nF	100nF	220nF	470nF	1µF	2.2µF	4.7µF	10µF	22µF	47µF	100µF	200µF
0603 (1608)	25						X7R	X7R	X7R	X7R	X7R							
	35						X7R	X7R	X7R	X7R	X7R							
	50	X7R	X7R	X7R	X7R	X7R	X7R	X7R										
	100	X7R	X7R	X7R	X7R	X7R	X7R	X7R										
0805 (2012)	6,3													X7R				
	10																	
	16											X7R	X7R					
	25											X7R						
	35										X7R							
	50				X7R	X7R	X7R	X7R	X7R	X7S	X7R							
	100	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7S	X7S							
	250	X7R	X7R	X7R	X7R	X7R												
1206 (3216)	10														X7R			
	16												X7R	X7R				
	25									X7R			X7R	X7R				
	35									X7R		X7R	X7R	X7R				
	50						X7R	X7R	X7R	X7R	X7R	X7R	X7S					
	100	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7S						
	250	X7R	X7R	X7R	X7R	X7R	X7R	X7R										
	630	X7R	X7R	X7R	X7R	X7R												
1210 (3225)	6,3															X7R		
	10																	
	16														X7R			
	25												X7R	X7R				
	35												X7R	X7R				
	50											X7R	X7R	X7R				
	100					X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7S					
	250					X7R	X7R	X7R	X7R									
	630					X7R	X7R											

X = -55°C, 6 = +105°C, 7 = +125°C – Over the specified temperature range, a capacitance change of ±15% (R) / ±22% (S) is permissible.

* Additional intermediate capacitance values available.

Case Size inch (mm)	Capacitance	102	152	222	332	472	103	223	333	473	104	224	474	105	225	475	106	226	476	107
	Voltage	1nF	1.5nF	2.2nF	3.3nF	4.7nF	10nF	22nF	33nF	47nF	100nF	220nF	470nF	1µF	2.2µF	4.7µF	10µF	22µF	47µF	100µF
0201 (0603)	4										X7T									
	6,3							X7T	X7T	X7T	X7T									
	10	X7R	X7R	X7R	X7R	X7R	X7R				X7S									
	16	X7R	X7R	X7R	X7R															
	25	X7R	X7R	X7R	X7R		X7R													
	50	X7R		X7R																
0402 (1005)	4																			
	6,3			X7T							X8L			X7T						
	10	X7R		X7R		X7R	X7R	X7R	X8L	X8L	X7R			X7T						
	16	X7R		X7R		X7R	X7R	X8L		X7R	X7R									
	25	X7R		X7R		X7R	X8L	X7R		X7R	X7R	X7S								
	50	X8L	X8L	X8L	X8L	X8L	X7R	X7R	X7R	X7R	X7R									
	100	X8L	X7R	X7R	X7R	X7R	X7R													
0603 (1608)	4																			
	6,3											X8L	X8L		X7R	X7T				
	10							X7R		X7R	X7R	X7R	X7R	X7R	X7T	X7T				
	16							X7R		X7R	X7R	X7R	X7R	X7R						
	25							X7R		X7R	X7R	X7R	X7R							
	50	X8L	X8L	X8L	X8L	X8L	X8L	X8L	X8L	X8L	X8L	X7S					X8L	X8L		
	100	X8L	X8L	X8L	X8L	X8L	X8L	X7R	X7R	X7R	X7R									

Case Size inch (mm)	Capacitance	102	152	222	332	472	103	223	333	473	104	224	474	105	225	475	106	226	476	107
	Voltage	1nF	1.5nF	2.2nF	3.3nF	4.7nF	10nF	22nF	33nF	47nF	100nF	220nF	470nF	1μF	2.2μF	4.7μF	10μF	22μF	47μF	100μF
0805 (2012)	4																			
	6,3																X7R			
	10									X7R	X7R	X7R	X8L	X7R	X7R	X7R				
	16									X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7T			
	25						X7R	X7R		X8L	X8L	X8L	X7R	X7R	X7R	X7S				
	50						X8L	X8L		X7R	X7R	X8L	X7S	X7R						
	100						X7R	X7R		X7R	X7R	X7R	X7S	X7S						
	250																			
1206 (3216)	4																X7R			
	6,3																X7R			
	10											X7R	X7R	X7R	X7R	X7R	X7R			
	16											X7R	X7R	X7R	X7R	X7R	X7R			
	25										X7R	X8L	X8L	X8L	X7R	X7R				
	50	X7R		X7R		X7R	X7R				X7R	X7R	X7R	X8L	X7S	X7S				
	100	X7R		X7R		X7R	X7R				X7R	X7R	X7R	X7R	X7S					
	250																			
1210 (3225)	6,3																X7R	X7R		
	10											X7R	X7R	X7R	X7R	X7R	X7R	X7R		
	16											X7R	X7R	X7R	X7R	X7R	X7R			
	25											X8L	X8L	X8L	X7R	X7R	X7R			
	50							X7R		X7R	X7R	X7R	X7R	X7R	X8L	X7R	X7S			
	100							X7R		X7R	X7R	X7R			X7R	X7S				
	250																			

X = -55°C, 5 = +85°C, 6 = +105°C, 7 = +125°C, 8 = +150°C – Over the specified temperature range, a capacitance change of ±15% (R), ±22% (S), +22% to -33% (T), or up to ±15% to -22% (L) is permissible; for L characteristics, ±15% applies up to 125°C and -15% to -22% from 125°C to 150°C.

* Additional intermediate capacitance values available.

Case Size inch (mm)	Capacitance	102	222	472	103	223	473	104	224	474	105	225	475	106	226	476	107
	Voltage	1nF	2.2nF	4.7nF	10nF	22nF	47nF	100nF	220nF	470nF	1µF	2.2µF	4.7µF	10µF	22µF	47µF	100µF
0603 (1608)	10								X7R	X8L	X7R						
	16								X7R	X7R	X7R						
	25								X7R	X7R	X7R						
	50						X7R	X7R	X7S								
	100						X7R	X7R									
1206 (3216)	10										X7R						
	16										X7R						
	25										X7R						
	50								X7R		X7R						
	100								X7R		X7R						

X = -55°C, 5 = +85°C, 6 = +105°C, 7 = +125°C, 8 = +150°C – Over the specified temperature range, a capacitance change of ±15% (R), ±22% (S), +22% to -33% (T), or for L characteristics: ±15% up to 125°C and -15% to -22% from 125°C to 150°C is permissible.

Case Size inch (mm)	Capacitance	102	152	222	332	472	682	103	153	223	333	473	683	104	224	474	105	225	475	106
	Voltage	1nF	1.5nF	2.2nF	3.3nF	4.7nF	6.8nF	10nF	15nF	22nF	33nF	47nF	68nF	100nF	220nF	470nF	1µF	2.2µF	4.7µF	10µF
0402 (1005)	6,3												X8L	X8L						
	10										X8L	X8L								
	16								X8L	X8L										
	25						X8L	X8L												
	50	X8L	X8L	X8L	X8L	X8L														
	100	X8L																		
0603 (1608)	6,3													X8L	X8L					
	10																			
	16																			
	25																			
	50	X8L	X8L	X8L	X8L	X8L	X8L	X8L	X8L	X8L	X8L	X8L		X8L						
	100	X8L	X8L	X8L	X8L	X8L	X8L	X8L												
0805 (2012)	6,3																			
	10															X8L				
	16																			
	25											X8L		X8L	X8L					
	50							X8L		X8L					X8L					
1206 (3216)	25													X8L	X8L	X8L				
	50															X8L				
1210 (3225)	25													X8L	X8L	X8L				
	50																X8L			

What's your mission?

SALES

Tel. +49 9122 8768-0
sales@rm-components.de

RM Components GmbH
O'Brien-Straße 5
D-91126 Schwabach

info@rm-components.de
www.rm-components.de

