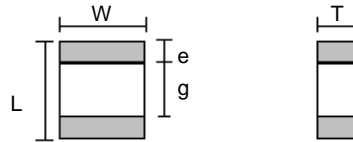


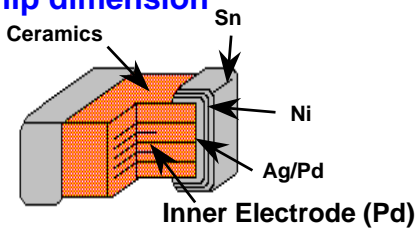
High Frequency/High Power Type MA series

Features

1. Miniature sizes
2. Very high Q at high frequency
3. High RF power capabilities
4. Impervious to environmental conditions
5. Low noise



Chip dimension



Unit:(mm)

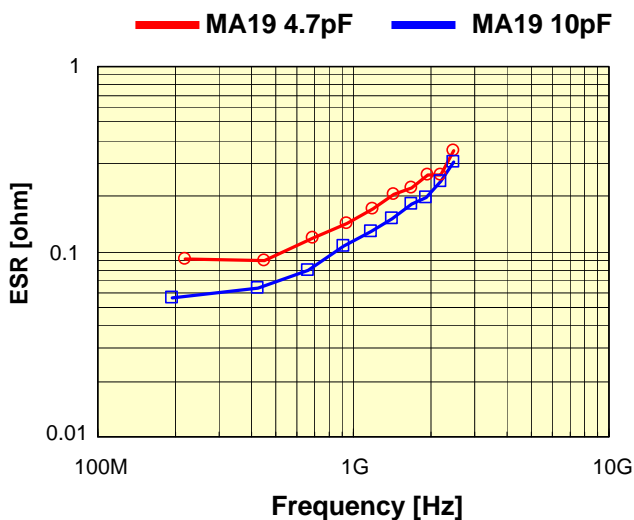
Type	TC	EIA size	L	W	T max.
MA19	P090	0505	1.4+/-0.3	1.4+/-0.3	1.4
MA29	P090	1111	2.8+/-0.4	2.8+/-0.4	2.54
MA59	C0G	0505	1.4+/-0.3	1.4+/-0.3	1.4
MA69	C0G	1111	2.8+/-0.4	2.8+/-0.4	2.54

Capacitance range

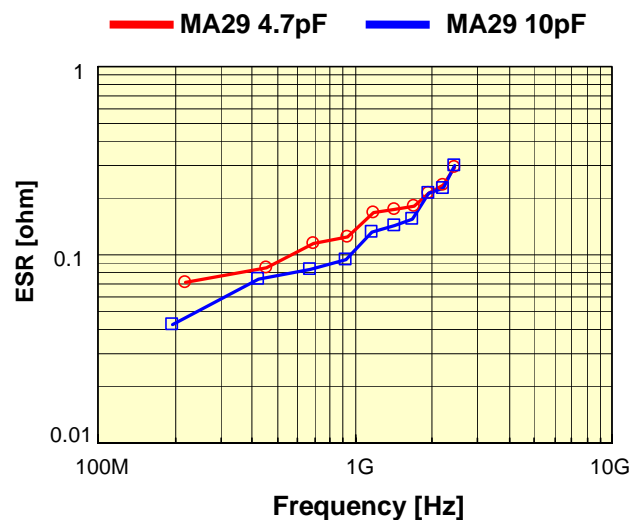
Type (EIA)	TC	WV	Capacitance Range [pF]				
			1	10	100	1000	
MA19 (0505)	P090	150V	■	■	■	■	0.5 to 100 pF
		500V	■	■	■	■	0.5 to 100 pF
MA29 (1111)	P090	300V			■		110 to 200 pF
		200V			■	■	210 to 470 pF
		100V				■	510 to 620 pF
		50V				■	680 to 1000 pF
MA59 (0505)	C0G	150V	■	■	■	■	0.5 to 100 pF
		500V	■	■	■	■	0.5 to 100 pF
MA69 (1111)	C0G	300V			■		110 to 200 pF
		200V			■	■	220 to 470 pF
		100V				■	510 to 620 pF
		50V				■	680 to 1000 pF

ESR Characteristics (TC:P090)

ESR - Freq MA19 (0505)



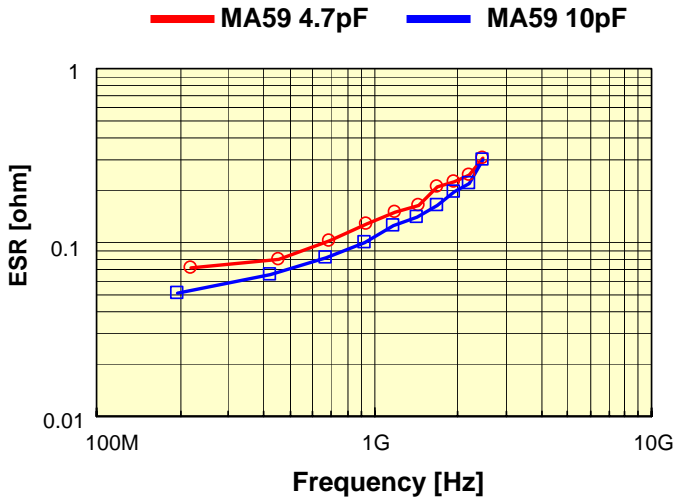
ESR - Freq MA29 (1111)



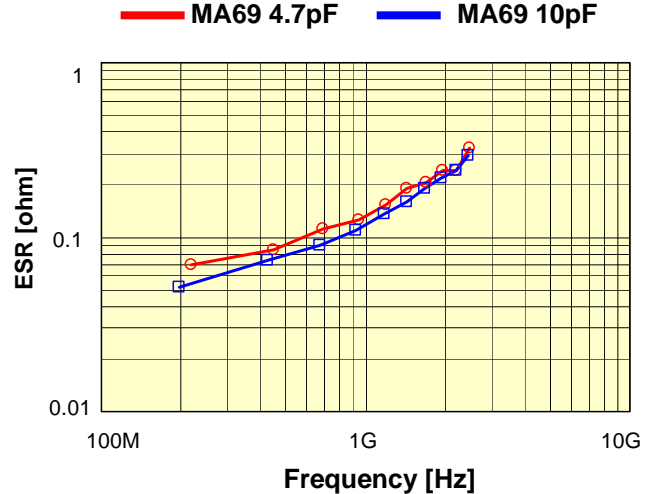
High Frequency/High Power Type MA series

ESR Characteristics (TC:C0G)

ESR - Freq MA59 (0505)



ESR - Freq MA69 (1111)



Part Numbering

MA 2 9 100 J A N
-1- -2- -3- -4- -5- -6- -7-

-1:-Product ID

Code	Product and Series
MA	High Frequency Type

-2:-Dimensions & Temperature Characteristics

Code	Dimension (LxWxT)	TC	Temp. Range	Cap. Change
1	1.4x1.4x1.4 mm	P090	-55 to 125C	0+/-20ppm/C
2	2.8x2.8x2.5 mm	P090	-55 to 125C	0+/-20ppm/C
5	1.4x1.4x1.4 mm	C0G	-55 to 125C	0+/-30ppm/C
6	2.8x2.8x2.5 mm	C0G	-55 to 125C	0+/-30ppm/C

-3:-Termination

Code	Termination
9	Pd/Ag, Ni+Sn plating

-4:-Capacitance

Code	Capacitance
R50	0.5pF
1R0	1.0pF
5R6	5.6pF
100	10pF

-5:-Capacitance Tolerance

Code	Cap. Tol.	TC
W	+/-0.05pF	P090,C0G (<=5pF)
B	+/-0.1pF	P090,C0G (<=5pF)
C	+/-0.25pF	P090,C0G (<=9pF)
D	+/-0.5pF	P090,C0G (6 to 9pF)
F	+/-1%	P090,C0G (>=10pF)
G	+/-2%	
J	+/-5%	

-6:-Marking

Code	Marking
A	No Marking
B	Marking

-7:-Packaging

Code	Packaging
B	Bulk in nylon bag
N	φ178mm Plastic Taping

MA19 series (TC:P090)

Size	TC	WV	Cap	Cap Tol	Murata Global P/N	Sample	Mass Production	Design Kit
0505	P090	150V	0.5pF	+/-0.1pF	MA190R5BAN	Available	M.P.	○
0505	P090	150V	0.5pF	+/-0.25pF	MA190R5CAN	Available	M.P.	
0505	P090	150V	0.75pF	+/-0.1pF	MA19R75BAN	Available	M.P.	
0505	P090	150V	0.75pF	+/-0.25pF	MA19R75CAN	Available	M.P.	
0505	P090	150V	1pF	+/-0.1pF	MA191R0BAN	Available	M.P.	○
0505	P090	150V	1pF	+/-0.25pF	MA191R0CAN	Available	M.P.	
0505	P090	150V	1.1pF	+/-0.1pF	MA191R1BAN	Available	M.P.	
0505	P090	150V	1.2pF	+/-0.1pF	MA191R2BAN	Available	M.P.	○
0505	P090	150V	1.3pF	+/-0.1pF	MA191R3BAN	Available	M.P.	
0505	P090	150V	1.5pF	+/-0.1pF	MA191R5BAN	Available	M.P.	
0505	P090	150V	1.5pF	+/-0.25pF	MA191R5CAN	Available	M.P.	○
0505	P090	150V	1.6pF	+/-0.1pF	MA191R6BAN	Available	M.P.	
0505	P090	150V	1.8pF	+/-0.1pF	MA191R8BAN	Available	M.P.	○
0505	P090	150V	2pF	+/-0.1pF	MA192R0BAN	Available	M.P.	
0505	P090	150V	2pF	+/-0.25pF	MA192R0CAN	Available	M.P.	
0505	P090	150V	2.2pF	+/-0.1pF	MA192R2BAN	Available	M.P.	○
0505	P090	150V	2.4pF	+/-0.1pF	MA192R4BAN	Available	M.P.	
0505	P090	150V	2.7pF	+/-0.1pF	MA192R7BAN	Available	M.P.	
0505	P090	150V	3pF	+/-0.1pF	MA193R0BAN	Available	M.P.	
0505	P090	150V	3pF	+/-0.25pF	MA193R0CAN	Available	M.P.	
0505	P090	150V	3.3pF	+/-0.1pF	MA193R3BAN	Available	M.P.	○
0505	P090	150V	3.6pF	+/-0.1pF	MA193R6BAN	Available	M.P.	
0505	P090	150V	3.9pF	+/-0.1pF	MA193R9BAN	Available	M.P.	○
0505	P090	150V	4pF	+/-0.1pF	MA194R0BAN	Available	M.P.	
0505	P090	150V	4pF	+/-0.25pF	MA194R0CAN	Available	M.P.	
0505	P090	150V	4.3pF	+/-0.1pF	MA194R3BAN	Available	M.P.	
0505	P090	150V	4.7pF	+/-0.1pF	MA194R7BAN	Available	M.P.	○
0505	P090	150V	5pF	+/-0.1pF	MA195R0BAN	Available	M.P.	
0505	P090	150V	5pF	+/-0.25pF	MA195R0CAN	Available	M.P.	
0505	P090	150V	5.1pF	+/-0.25pF	MA195R1CAN	Available	M.P.	
0505	P090	150V	5.6pF	+/-0.25pF	MA195R6CAN	Available	M.P.	○
0505	P090	150V	6pF	+/-0.25pF	MA196R0CAN	Available	M.P.	
0505	P090	150V	6pF	+/-0.5pF	MA196R0DAN	Available	M.P.	
0505	P090	150V	6.2pF	+/-0.25pF	MA196R2CAN	Available	M.P.	
0505	P090	150V	6.8pF	+/-0.25pF	MA196R8CAN	Available	M.P.	○
0505	P090	150V	7pF	+/-0.25pF	MA197R0CAN	Available	M.P.	
0505	P090	150V	7pF	+/-0.5pF	MA197R0DAN	Available	M.P.	
0505	P090	150V	7.5pF	+/-0.25pF	MA197R5CAN	Available	M.P.	
0505	P090	150V	8pF	+/-0.25pF	MA198R0CAN	Available	M.P.	
0505	P090	150V	8pF	+/-0.5pF	MA198R0DAN	Available	M.P.	
0505	P090	150V	8.2pF	+/-0.25pF	MA198R2CAN	Available	M.P.	○
0505	P090	150V	9pF	+/-0.25pF	MA199R0CAN	Available	M.P.	
0505	P090	150V	9pF	+/-0.5pF	MA199R0DAN	Available	M.P.	
0505	P090	150V	9.1pF	+/-0.25pF	MA199R1CAN	Available	M.P.	

1) “**” of under development P/N have not fixed yet.

2) Q1 = January to March, Q2 = April to June, Q3 = July to September, Q4 = October to December

3) This is muRata’s development schedule, which may change due to progress of each development works.

4) Above individual specification code and packaging code were decided with muRata standard specification, and it may change due to the special requirement by customer’s drawing.

5) Sample marked “-” in Sample column are built upon your request. Lead time will be around 4wks (might be extended depending on production schedule). Please contact Murata Sales or Product Engineer directly.

MA19 series (TC:P090)

Size	TC	WV	Cap	Cap Tol	Murata Global P/N	Sample	Mass Production	Design Kit
0505	P090	150V	10pF	+/-2%	MA19100GAN	Available	M.P.	
0505	P090	150V	10pF	+/-5%	MA19100JAN	Available	M.P.	○
0505	P090	150V	12pF	+/-2%	MA19120GAN	Available	M.P.	
0505	P090	150V	12pF	+/-5%	MA19120JAN	Available	M.P.	○
0505	P090	150V	15pF	+/-2%	MA19150GAN	Available	M.P.	
0505	P090	150V	15pF	+/-5%	MA19150JAN	Available	M.P.	○
0505	P090	150V	18pF	+/-2%	MA19180GAN	Available	M.P.	
0505	P090	150V	18pF	+/-5%	MA19180JAN	Available	M.P.	○
0505	P090	150V	22pF	+/-2%	MA19220GAN	Available	M.P.	
0505	P090	150V	22pF	+/-5%	MA19220JAN	Available	M.P.	○
0505	P090	150V	27pF	+/-2%	MA19270GAN	Available	M.P.	
0505	P090	150V	27pF	+/-5%	MA19270JAN	Available	M.P.	○
0505	P090	150V	33pF	+/-2%	MA19330GAN	Available	M.P.	
0505	P090	150V	33pF	+/-5%	MA19330JAN	Available	M.P.	○
0505	P090	150V	39pF	+/-2%	MA19390GAN	Available	M.P.	
0505	P090	150V	39pF	+/-5%	MA19390JAN	Available	M.P.	○
0505	P090	150V	47pF	+/-2%	MA19470GAN	Available	M.P.	
0505	P090	150V	47pF	+/-5%	MA19470JAN	Available	M.P.	○
0505	P090	150V	56pF	+/-2%	MA19560GAN	Available	M.P.	
0505	P090	150V	56pF	+/-5%	MA19560JAN	Available	M.P.	○
0505	P090	150V	68pF	+/-2%	MA19680GAN	Available	M.P.	
0505	P090	150V	68pF	+/-5%	MA19680JAN	Available	M.P.	○
0505	P090	150V	82pF	+/-2%	MA19820GAN	Available	M.P.	
0505	P090	150V	82pF	+/-5%	MA19820JAN	Available	M.P.	○
0505	P090	150V	100pF	+/-2%	MA19101GAN	Available	M.P.	
0505	P090	150V	100pF	+/-5%	MA19101JAN	Available	M.P.	○

1) "*" of under development P/N have not fixed yet.

2) Q1 = January to March, Q2 = April to June, Q3 = July to September, Q4 = October to December

3) This is muRata's development schedule, which may change due to progress of each development works.

4) Above individual specification code and packaging code were decided with muRata standard specification, and it may change due to the special requirement by customer's drawing.

5) Sample marked "-" in Sample column are built upon your request. Lead time will be around 4wks (might be extended depending on production schedule). Please contact Murata Sales or Product Engineer directly.

MA29 series (TC:P090)

Size	TC	WV	Cap	Cap Tol	Murata Global P/N	Sample	Mass Production	Design Kit
1111	P090	500V	0.5pF	+/-0.1pF	MA290R5BAN	Available	M.P.	○
1111	P090	500V	0.5pF	+/-0.25pF	MA290R5CAN	Available	M.P.	
1111	P090	500V	0.75pF	+/-0.1pF	MA29R75BAN	Available	M.P.	
1111	P090	500V	0.75pF	+/-0.25pF	MA29R75CAN	Available	M.P.	
1111	P090	500V	1pF	+/-0.1pF	MA291R0BAN	Available	M.P.	○
1111	P090	500V	1pF	+/-0.25pF	MA291R0CAN	Available	M.P.	
1111	P090	500V	1.1pF	+/-0.1pF	MA291R1BAN	Available	M.P.	
1111	P090	500V	1.2pF	+/-0.1pF	MA291R2BAN	Available	M.P.	○
1111	P090	500V	1.3pF	+/-0.1pF	MA291R3BAN	Available	M.P.	
1111	P090	500V	1.5pF	+/-0.1pF	MA291R5BAN	Available	M.P.	
1111	P090	500V	1.5pF	+/-0.25pF	MA291R5CAN	Available	M.P.	○
1111	P090	500V	1.6pF	+/-0.1pF	MA291R6BAN	Available	M.P.	
1111	P090	500V	1.8pF	+/-0.1pF	MA291R8BAN	Available	M.P.	○
1111	P090	500V	2pF	+/-0.1pF	MA292R0BAN	Available	M.P.	
1111	P090	500V	2pF	+/-0.25pF	MA292R0CAN	Available	M.P.	
1111	P090	500V	2.2pF	+/-0.1pF	MA292R2BAN	Available	M.P.	○
1111	P090	500V	2.4pF	+/-0.1pF	MA292R4BAN	Available	M.P.	
1111	P090	500V	2.7pF	+/-0.1pF	MA292R7BAN	Available	M.P.	○
1111	P090	500V	3pF	+/-0.1pF	MA293R0BAN	Available	M.P.	
1111	P090	500V	3pF	+/-0.25pF	MA293R0CAN	Available	M.P.	
1111	P090	500V	3.3pF	+/-0.1pF	MA293R3BAN	Available	M.P.	○
1111	P090	500V	3.6pF	+/-0.1pF	MA293R6BAN	Available	M.P.	
1111	P090	500V	3.9pF	+/-0.1pF	MA293R9BAN	Available	M.P.	○
1111	P090	500V	4pF	+/-0.1pF	MA294R0BAN	Available	M.P.	
1111	P090	500V	4pF	+/-0.25pF	MA294R0CAN	Available	M.P.	
1111	P090	500V	4.3pF	+/-0.1pF	MA294R3BAN	Available	M.P.	
1111	P090	500V	4.7pF	+/-0.1pF	MA294R7BAN	Available	M.P.	○
1111	P090	500V	5pF	+/-0.1pF	MA295R0BAN	Available	M.P.	
1111	P090	500V	5pF	+/-0.25pF	MA295R0CAN	Available	M.P.	
1111	P090	500V	5.1pF	+/-0.25pF	MA295R1CAN	Available	M.P.	
1111	P090	500V	5.6pF	+/-0.25pF	MA295R6CAN	Available	M.P.	○
1111	P090	500V	6pF	+/-0.25pF	MA296R0CAN	Available	M.P.	
1111	P090	500V	6pF	+/-0.5pF	MA296R0DAN	Available	M.P.	
1111	P090	500V	6.2pF	+/-0.25pF	MA296R2CAN	Available	M.P.	
1111	P090	500V	6.8pF	+/-0.25pF	MA296R8CAN	Available	M.P.	○
1111	P090	500V	7pF	+/-0.25pF	MA297R0CAN	Available	M.P.	
1111	P090	500V	7pF	+/-0.5pF	MA297R0DAN	Available	M.P.	
1111	P090	500V	7.5pF	+/-0.25pF	MA297R5CAN	Available	M.P.	
1111	P090	500V	8pF	+/-0.25pF	MA298R0CAN	Available	M.P.	
1111	P090	500V	8pF	+/-0.5pF	MA298R0DAN	Available	M.P.	
1111	P090	500V	8.2pF	+/-0.25pF	MA298R2CAN	Available	M.P.	○
1111	P090	500V	9pF	+/-0.25pF	MA299R0CAN	Available	M.P.	
1111	P090	500V	9pF	+/-0.5pF	MA299R0DAN	Available	M.P.	
1111	P090	500V	9.1pF	+/-0.25pF	MA299R1CAN	Available	M.P.	

1) "*" of under development P/N have not fixed yet.

2) Q1 = January to March, Q2 = April to June, Q3 = July to September, Q4 = October to December

3) This is muRata's development schedule, which may change due to progress of each development works.

4) Above individual specification code and packaging code were decided with muRata standard specification, and it may change due to the special requirement by customer's drawing.

5) Sample marked "-" in Sample column are built upon your request. Lead time will be around 4wks (might be extended depending on production schedule). Please contact Murata Sales or Product Engineer directly.

MA29 series (TC:P090)

Size	TC	WV	Cap	Cap Tol	Murata Global P/N	Sample	Mass Production	Design Kit
1111	P090	500V	10pF	+/-2%	MA29100GAN	Available	M.P.	
1111	P090	500V	10pF	+/-5%	MA29100JAN	Available	M.P.	○
1111	P090	500V	12pF	+/-2%	MA29120GAN	Available	M.P.	
1111	P090	500V	12pF	+/-5%	MA29120JAN	Available	M.P.	○
1111	P090	500V	15pF	+/-2%	MA29150GAN	Available	M.P.	
1111	P090	500V	15pF	+/-5%	MA29150JAN	Available	M.P.	○
1111	P090	500V	18pF	+/-2%	MA29180GAN	Available	M.P.	
1111	P090	500V	18pF	+/-5%	MA29180JAN	Available	M.P.	○
1111	P090	500V	22pF	+/-2%	MA29220GAN	Available	M.P.	
1111	P090	500V	22pF	+/-5%	MA29220JAN	Available	M.P.	○
1111	P090	500V	27pF	+/-2%	MA29270GAN	Available	M.P.	
1111	P090	500V	27pF	+/-5%	MA29270JAN	Available	M.P.	○
1111	P090	500V	33pF	+/-2%	MA29330GAN	Available	M.P.	
1111	P090	500V	33pF	+/-5%	MA29330JAN	Available	M.P.	○
1111	P090	500V	39pF	+/-2%	MA29390GAN	Available	M.P.	
1111	P090	500V	39pF	+/-5%	MA29390JAN	Available	M.P.	○
1111	P090	500V	47pF	+/-2%	MA29470GAN	Available	M.P.	
1111	P090	500V	47pF	+/-5%	MA29470JAN	Available	M.P.	○
1111	P090	500V	56pF	+/-2%	MA29560GAN	Available	M.P.	
1111	P090	500V	56pF	+/-5%	MA29560JAN	Available	M.P.	○
1111	P090	500V	68pF	+/-2%	MA29680GAN	Available	M.P.	
1111	P090	500V	68pF	+/-5%	MA29680JAN	Available	M.P.	○
1111	P090	500V	82pF	+/-2%	MA29820GAN	Available	M.P.	
1111	P090	500V	82pF	+/-5%	MA29820JAN	Available	M.P.	○
1111	P090	500V	100pF	+/-2%	MA29101GAN	Available	M.P.	
1111	P090	500V	100pF	+/-5%	MA29101JAN	Available	M.P.	○
1111	P090	300V	120pF	+/-5%	MA29121JAN	Available	M.P.	
1111	P090	300V	150pF	+/-5%	MA29151JAN	Available	M.P.	○
1111	P090	300V	180pF	+/-5%	MA29181JAN	Available	M.P.	
1111	P090	200V	220pF	+/-5%	MA29221JAN	Available	M.P.	○
1111	P090	200V	270pF	+/-5%	MA29271JAN	Available	M.P.	
1111	P090	200V	330pF	+/-5%	MA29331JAN	Available	M.P.	○
1111	P090	200V	390pF	+/-5%	MA29391JAN	Available	M.P.	
1111	P090	200V	470pF	+/-5%	MA29471JAN	Available	M.P.	○
1111	P090	100V	560pF	+/-5%	MA29561JAN	Available	M.P.	
1111	P090	50V	680pF	+/-5%	MA29681JAN	Available	M.P.	○
1111	P090	50V	820pF	+/-5%	MA29821JAN	Available	M.P.	
1111	P090	50V	1000pF	+/-5%	MA29102JAN	Available	M.P.	○

- 1) "*" of under development P/N have not fixed yet.
- 2) Q1 = January to March, Q2 = April to June, Q3 = July to September, Q4 = October to December
- 3) This is muRata's development schedule, which may change due to progress of each development works.
- 4) Above individual specification code and packaging code were decided with muRata standard specification, and it may change due to the special requirement by customer's drawing.
- 5) Sample marked "-" in Sample column are built upon your request. Lead time will be around 4wks (might be extended depending on production schedule). Please contact Murata Sales or Product Engineer directly.

MA59 series (TC:C0G)

Size	TC	WV	Cap	Cap Tol	Murata Global P/N	Sample	Mass Production	Design Kit
0505	C0G	150V	0.5pF	+/-0.1pF	MA590R5BAN	Available	M.P.	
0505	C0G	150V	0.5pF	+/-0.25pF	MA590R5CAN	Available	M.P.	
0505	C0G	150V	0.75pF	+/-0.1pF	MA59R75BAN	Available	M.P.	
0505	C0G	150V	0.75pF	+/-0.25pF	MA59R75CAN	Available	M.P.	
0505	C0G	150V	1pF	+/-0.1pF	MA591R0BAN	Available	M.P.	○
0505	C0G	150V	1pF	+/-0.25pF	MA591R0CAN	Available	M.P.	
0505	C0G	150V	1.1pF	+/-0.1pF	MA591R1BAN	Available	M.P.	
0505	C0G	150V	1.2pF	+/-0.1pF	MA591R2BAN	Available	M.P.	
0505	C0G	150V	1.3pF	+/-0.1pF	MA591R3BAN	Available	M.P.	
0505	C0G	150V	1.5pF	+/-0.1pF	MA591R5BAN	Available	M.P.	
0505	C0G	150V	1.5pF	+/-0.25pF	MA591R5CAN	Available	M.P.	○
0505	C0G	150V	1.6pF	+/-0.1pF	MA591R6BAN	Available	M.P.	
0505	C0G	150V	1.8pF	+/-0.1pF	MA591R8BAN	Available	M.P.	
0505	C0G	150V	2pF	+/-0.1pF	MA592R0BAN	Available	M.P.	
0505	C0G	150V	2pF	+/-0.25pF	MA592R0CAN	Available	M.P.	
0505	C0G	150V	2.2pF	+/-0.1pF	MA592R2BAN	Available	M.P.	○
0505	C0G	150V	2.4pF	+/-0.1pF	MA592R4BAN	Available	M.P.	
0505	C0G	150V	2.7pF	+/-0.1pF	MA592R7BAN	Available	M.P.	
0505	C0G	150V	3pF	+/-0.1pF	MA593R0BAN	Available	M.P.	
0505	C0G	150V	3pF	+/-0.25pF	MA593R0CAN	Available	M.P.	
0505	C0G	150V	3.3pF	+/-0.1pF	MA593R3BAN	Available	M.P.	○
0505	C0G	150V	3.6pF	+/-0.1pF	MA593R6BAN	Available	M.P.	
0505	C0G	150V	3.9pF	+/-0.1pF	MA593R9BAN	Available	M.P.	
0505	C0G	150V	4pF	+/-0.1pF	MA594R0BAN	Available	M.P.	
0505	C0G	150V	4pF	+/-0.25pF	MA594R0CAN	Available	M.P.	
0505	C0G	150V	4.3pF	+/-0.1pF	MA594R3BAN	Available	M.P.	
0505	C0G	150V	4.7pF	+/-0.1pF	MA594R7BAN	Available	M.P.	○
0505	C0G	150V	5pF	+/-0.1pF	MA595R0BAN	Available	M.P.	
0505	C0G	150V	5pF	+/-0.25pF	MA595R0CAN	Available	M.P.	
0505	C0G	150V	5.1pF	+/-0.25pF	MA595R1CAN	Available	M.P.	
0505	C0G	150V	5.6pF	+/-0.25pF	MA595R6CAN	Available	M.P.	
0505	C0G	150V	6pF	+/-0.25pF	MA596R0CAN	Available	M.P.	
0505	C0G	150V	6pF	+/-0.5pF	MA596R0DAN	Available	M.P.	
0505	C0G	150V	6.2pF	+/-0.25pF	MA596R2CAN	Available	M.P.	
0505	C0G	150V	6.8pF	+/-0.25pF	MA596R8DAN	Available	M.P.	○
0505	C0G	150V	7pF	+/-0.25pF	MA597R0CAN	Available	M.P.	
0505	C0G	150V	7pF	+/-0.5pF	MA597R0DAN	Available	M.P.	
0505	C0G	150V	7.5pF	+/-0.25pF	MA597R5CAN	Available	M.P.	
0505	C0G	150V	8pF	+/-0.25pF	MA598R0CAN	Available	M.P.	
0505	C0G	150V	8pF	+/-0.5pF	MA598R0DAN	Available	M.P.	
0505	C0G	150V	8.2pF	+/-0.25pF	MA598R2CAN	Available	M.P.	
0505	C0G	150V	9pF	+/-0.25pF	MA599R0CAN	Available	M.P.	
0505	C0G	150V	9pF	+/-0.5pF	MA599R0DAN	Available	M.P.	

- 1) "*" of under development P/N have not fixed yet.
- 2) Q1 = January to March, Q2 = April to June, Q3 = July to September, Q4 = October to December
- 3) This is muRata's development schedule, which may change due to progress of each development works.
- 4) Above individual specification code and packaging code were decided with muRata standard specification, and it may change due to the special requirement by customer's drawing.
- 5) Sample marked "-" in Sample column are built upon your request. Lead time will be around 4wks (might be extended depending on production schedule). Please contact Murata Sales or Product Engineer directly.

MA59 series (TC:C0G)

Size	TC	WV	Cap	Cap Tol	Murata Global P/N	Sample	Mass Production	Design Kit
0505	C0G	150V	10pF	+/-2%	MA59100GAN	Available	M.P.	
0505	C0G	150V	10pF	+/-5%	MA59100JAN	Available	M.P.	○
0505	C0G	150V	12pF	+/-2%	MA59120GAN	Available	M.P.	
0505	C0G	150V	12pF	+/-5%	MA59120JAN	Available	M.P.	
0505	C0G	150V	15pF	+/-2%	MA59150GAN	Available	M.P.	
0505	C0G	150V	15pF	+/-5%	MA59150JAN	Available	M.P.	○
0505	C0G	150V	18pF	+/-2%	MA59180GAN	Available	M.P.	
0505	C0G	150V	18pF	+/-5%	MA59180JAN	Available	M.P.	
0505	C0G	150V	22pF	+/-2%	MA59220GAN	Available	M.P.	
0505	C0G	150V	22pF	+/-5%	MA59220JAN	Available	M.P.	○
0505	C0G	150V	27pF	+/-2%	MA59270GAN	Available	M.P.	
0505	C0G	150V	27pF	+/-5%	MA59270JAN	Available	M.P.	
0505	C0G	150V	33pF	+/-2%	MA59330GAN	Available	M.P.	
0505	C0G	150V	33pF	+/-5%	MA59330JAN	Available	M.P.	○
0505	C0G	150V	39pF	+/-2%	MA59390GAN	Available	M.P.	
0505	C0G	150V	39pF	+/-5%	MA59390JAN	Available	M.P.	
0505	C0G	150V	47pF	+/-2%	MA59470GAN	Available	M.P.	
0505	C0G	150V	47pF	+/-5%	MA59470JAN	Available	M.P.	○
0505	C0G	150V	56pF	+/-2%	MA59560GAN	Available	M.P.	
0505	C0G	150V	56pF	+/-5%	MA59560JAN	Available	M.P.	
0505	C0G	150V	68pF	+/-2%	MA59680GAN	Available	M.P.	
0505	C0G	150V	68pF	+/-5%	MA59680JAN	Available	M.P.	○
0505	C0G	150V	82pF	+/-2%	MA59820GAN	Available	M.P.	
0505	C0G	150V	82pF	+/-5%	MA59820JAN	Available	M.P.	
0505	C0G	150V	100pF	+/-2%	MA59101GAN	Available	M.P.	
0505	C0G	150V	100pF	+/-5%	MA59101JAN	Available	M.P.	○

1) “**” of under development P/N have not fixed yet.

2) Q1 = January to March, Q2 = April to June, Q3 = July to September, Q4 = October to December

3) This is muRata's development schedule, which may change due to progress of each development works.

4) Above individual specification code and packaging code were decided with muRata standard specification, and it may change due to the special requirement by customer's drawing.

5) Sample marked “-” in Sample column are built upon your request. Lead time will be around 4wks (might be extended depending on production schedule). Please contact Murata Sales or Product Engineer directly.

MA69 series (TC:C0G)

Size	TC	WV	Cap	Cap Tol	Murata Global P/N	Sample	Mass Production	Design Kit
1111	C0G	500V	0.5pF	+/-0.1pF	MA690R5BAN	Available	M.P.	
1111	C0G	500V	0.5pF	+/-0.25pF	MA690R5CAN	Available	M.P.	
1111	C0G	500V	0.75pF	+/-0.1pF	MA69R75BAN	Available	M.P.	
1111	C0G	500V	0.75pF	+/-0.25pF	MA69R75CAN	Available	M.P.	
1111	C0G	500V	1pF	+/-0.1pF	MA691R0BAN	Available	M.P.	
1111	C0G	500V	1pF	+/-0.25pF	MA691R0CAN	Available	M.P.	
1111	C0G	500V	1.1pF	+/-0.1pF	MA691R1BAN	Available	M.P.	
1111	C0G	500V	1.2pF	+/-0.1pF	MA691R2BAN	Available	M.P.	
1111	C0G	500V	1.3pF	+/-0.1pF	MA691R3BAN	Available	M.P.	
1111	C0G	500V	1.5pF	+/-0.1pF	MA691R5BAN	Available	M.P.	
1111	C0G	500V	1.5pF	+/-0.25pF	MA691R5CAN	Available	M.P.	○
1111	C0G	500V	1.6pF	+/-0.1pF	MA691R6BAN	Available	M.P.	
1111	C0G	500V	1.8pF	+/-0.1pF	MA691R8BAN	Available	M.P.	
1111	C0G	500V	2pF	+/-0.1pF	MA692R0BAN	Available	M.P.	
1111	C0G	500V	2pF	+/-0.25pF	MA692R0CAN	Available	M.P.	
1111	C0G	500V	2.2pF	+/-0.1pF	MA692R2BAN	Available	M.P.	○
1111	C0G	500V	2.4pF	+/-0.1pF	MA692R4BAN	Available	M.P.	
1111	C0G	500V	2.7pF	+/-0.1pF	MA692R7BAN	Available	M.P.	
1111	C0G	500V	3pF	+/-0.1pF	MA693R0BAN	Available	M.P.	
1111	C0G	500V	3pF	+/-0.25pF	MA693R0CAN	Available	M.P.	
1111	C0G	500V	3.3pF	+/-0.1pF	MA693R3BAN	Available	M.P.	○
1111	C0G	500V	3.6pF	+/-0.1pF	MA693R6BAN	Available	M.P.	
1111	C0G	500V	3.9pF	+/-0.1pF	MA693R9BAN	Available	M.P.	
1111	C0G	500V	4pF	+/-0.1pF	MA694R0BAN	Available	M.P.	
1111	C0G	500V	4pF	+/-0.25pF	MA694R0CAN	Available	M.P.	
1111	C0G	500V	4.3pF	+/-0.1pF	MA694R3BAN	Available	M.P.	
1111	C0G	500V	4.7pF	+/-0.1pF	MA694R7BAN	Available	M.P.	○
1111	C0G	500V	5pF	+/-0.1pF	MA695R0BAN	Available	M.P.	
1111	C0G	500V	5pF	+/-0.25pF	MA695R0CAN	Available	M.P.	
1111	C0G	500V	5.1pF	+/-0.25pF	MA695R1CAN	Available	M.P.	
1111	C0G	500V	5.6pF	+/-0.25pF	MA695R6CAN	Available	M.P.	
1111	C0G	500V	6pF	+/-0.25pF	MA696R0CAN	Available	M.P.	
1111	C0G	500V	6pF	+/-0.5pF	MA696R0DAN	Available	M.P.	
1111	C0G	500V	6.2pF	+/-0.25pF	MA696R2CAN	Available	M.P.	
1111	C0G	500V	6.8pF	+/-0.25pF	MA696R8DAN	Available	M.P.	○
1111	C0G	500V	7pF	+/-0.25pF	MA697R0CAN	Available	M.P.	
1111	C0G	500V	7pF	+/-0.5pF	MA697R0DAN	Available	M.P.	
1111	C0G	500V	7.5pF	+/-0.25pF	MA697R5CAN	Available	M.P.	
1111	C0G	500V	8pF	+/-0.25pF	MA698R0CAN	Available	M.P.	
1111	C0G	500V	8pF	+/-0.5pF	MA698R0DAN	Available	M.P.	
1111	C0G	500V	8.2pF	+/-0.25pF	MA698R2CAN	Available	M.P.	
1111	C0G	500V	9pF	+/-0.25pF	MA699R0CAN	Available	M.P.	
1111	C0G	500V	9pF	+/-0.5pF	MA699R0DAN	Available	M.P.	
1111	C0G	500V	9.1pF	+/-0.25pF	MA699R1CAN	Available	M.P.	

1) "*" of under development P/N have not fixed yet.

2) Q1 = January to March, Q2 = April to June, Q3 = July to September, Q4 = October to December

3) This is muRata's development schedule, which may change due to progress of each development works.

4) Above individual specification code and packaging code were decided with muRata standard specification, and it may change due to the special requirement by customer's drawing.

5) Sample marked "-" in Sample column are built upon your request. Lead time will be around 4wks (might be extended depending on production schedule). Please contact Murata Sales or Product Engineer directly.

MA69 series (TC:C0G)

Size	TC	WV	Cap	Cap Tol	Murata Global P/N	Sample	Mass Production	Design Kit
1111	C0G	500V	10pF	+/-2%	MA69100GAN	Available	M.P.	
1111	C0G	500V	10pF	+/-5%	MA69100JAN	Available	M.P.	○
1111	C0G	500V	12pF	+/-2%	MA69120GAN	Available	M.P.	
1111	C0G	500V	12pF	+/-5%	MA69120JAN	Available	M.P.	
1111	C0G	500V	15pF	+/-2%	MA69150GAN	Available	M.P.	
1111	C0G	500V	15pF	+/-5%	MA69150JAN	Available	M.P.	○
1111	C0G	500V	18pF	+/-2%	MA69180GAN	Available	M.P.	
1111	C0G	500V	18pF	+/-5%	MA69180JAN	Available	M.P.	
1111	C0G	500V	22pF	+/-2%	MA69220GAN	Available	M.P.	
1111	C0G	500V	22pF	+/-5%	MA69220JAN	Available	M.P.	○
1111	C0G	500V	27pF	+/-2%	MA69270GAN	Available	M.P.	
1111	C0G	500V	27pF	+/-5%	MA69270JAN	Available	M.P.	
1111	C0G	500V	33pF	+/-2%	MA69330GAN	Available	M.P.	
1111	C0G	500V	33pF	+/-5%	MA69330JAN	Available	M.P.	○
1111	C0G	500V	39pF	+/-2%	MA69390GAN	Available	M.P.	
1111	C0G	500V	39pF	+/-5%	MA69390JAN	Available	M.P.	
1111	C0G	500V	47pF	+/-2%	MA69470GAN	Available	M.P.	
1111	C0G	500V	47pF	+/-5%	MA69470JAN	Available	M.P.	○
1111	C0G	500V	56pF	+/-2%	MA69560GAN	Available	M.P.	
1111	C0G	500V	56pF	+/-5%	MA69560JAN	Available	M.P.	
1111	C0G	500V	68pF	+/-2%	MA69680GAN	Available	M.P.	
1111	C0G	500V	68pF	+/-5%	MA69680JAN	Available	M.P.	○
1111	C0G	500V	82pF	+/-2%	MA69820GAN	Available	M.P.	
1111	C0G	500V	82pF	+/-5%	MA69820JAN	Available	M.P.	
1111	C0G	500V	100pF	+/-2%	MA69101GAN	Available	M.P.	
1111	C0G	500V	100pF	+/-5%	MA69101JAN	Available	M.P.	○
1111	C0G	300V	120pF	+/-5%	MA69121JAN	Available	M.P.	
1111	C0G	300V	150pF	+/-5%	MA69151JAN	Available	M.P.	
1111	C0G	300V	180pF	+/-5%	MA69181JAN	Available	M.P.	
1111	C0G	200V	220pF	+/-5%	MA69221JAN	Available	M.P.	○
1111	C0G	200V	270pF	+/-5%	MA69271JAN	Available	M.P.	
1111	C0G	200V	330pF	+/-5%	MA69331JAN	Available	M.P.	
1111	C0G	200V	390pF	+/-5%	MA69391JAN	Available	M.P.	
1111	C0G	200V	470pF	+/-5%	MA69471JAN	Available	M.P.	○
1111	C0G	100V	560pF	+/-5%	MA69561JAN	Available	M.P.	
1111	C0G	50V	680pF	+/-5%	MA69681JAN	Available	M.P.	
1111	C0G	50V	820pF	+/-5%	MA69821JAN	Available	M.P.	
1111	C0G	50V	1000pF	+/-5%	MA69102JAN	Available	M.P.	○

1) “**” of under development P/N have not fixed yet.

2) Q1 = January to March, Q2 = April to June, Q3 = July to September, Q4 = October to December

3) This is muRata’s development schedule, which may change due to progress of each development works.

4) Above individual specification code and packaging code were decided with muRata standard specification, and it may change due to the special requirement by customer’s drawing.

5) Sample marked “-” in Sample column are built upon your request. Lead time will be around 4wks (might be extended depending on production schedule). Please contact Murata Sales or Product Engineer directly.