AVX Microwave MLCs

RoHS Compliant This product is RoHS compliant.

AVX A KYOCERA GROUP COMPANY

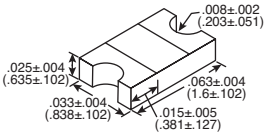
MLOC SERIES ORGANIC RF CAPACITORS

Features:
- EIA size 0603
- Designed to be used above 700 MHz
- High self resonance
- Tight tolerance
- Low ESR
- Hi-Q

Applications:
- Cellular communications
- Point to point radios
- RF power amplifiers
- Low noise amplifiers
- Filter Networks
- Wi-Fi / Wi-Max

Electrical Specifications:
- Operating temperature range: - 55˚C to + 125˚C

NEW! TECHNOLOGY



For quantities greater than listed, call for quote.

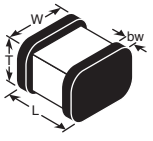
MOUSER STOCK NO.	AVX Part No.	Value (pF)	Volt	Price Each 1	100	500	1000	Reel Qty	Price Per Piece
581-ML03510R1AAT2A	ML03510R1AAT2A	0.1	50	.56	.42	.39	.35	3000	.34
581-ML03510R1BAT2A	ML03510R1BAT2A	0.1	50	.38	.28	.26	.24	3000	.23
581-ML03510R2AAT2A	ML03510R2AAT2A	0.2	50	.56	.42	.39	.35	3000	.34
581-ML03510R2BAT2A	ML03510R2BAT2A	0.2	50	.38	.28	.26	.24	3000	.23
581-ML03510R3AAT2A	ML03510R3AAT2A	0.3	50	.56	.42	.39	.35	3000	.34
581-ML03510R3BAT2A	ML03510R3BAT2A	0.3	50	.38	.28	.26	.24	3000	.23
581-ML03510R4AAT2A	ML03510R4AAT2A	0.4	50	.56	.42	.39	.35	3000	.34
581-ML03510R4BAT2A	ML03510R4BAT2A	0.4	50	.38	.28	.26	.24	3000	.23
581-ML03510R51AT2A	ML03510R51AT2A	0.5	50	.51	.38	.35	.32	3000	.31
581-ML03510R5BAT2A	ML03510R5BAT2A	0.5	50	.34	.26	.23	.21	3000	.20
581-ML03510R6AAT2A	ML03510R6AAT2A	0.6	50	.51	.38	.35	.32	3000	.31
581-ML03510R6BAT2A	ML03510R6BAT2A	0.6	50	.34	.26	.23	.21	3000	.20
581-ML03510R7AAT2A	ML03510R7AAT2A	0.7	50	.51	.38	.35	.32	3000	.31
581-ML03510R7BAT2A	ML03510R7BAT2A	0.7	50	.34	.26	.23	.21	3000	.20
581-ML03510R8AAT2A	ML03510R8AAT2A	0.8	50	.51	.38	.35	.32	3000	.31
581-ML03510R8BAT2A	ML03510R8BAT2A	0.8	50	.34	.26	.23	.21	3000	.20
581-ML03510R9AAT2A	ML03510R9AAT2A	0.9	50	.51	.38	.35	.32	3000	.31
581-ML03510R9BAT2A	ML03510R9BAT2A	0.9	50	.34	.26	.23	.21	3000	.20

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	AVX Part No.	Value (pF)	Volt	Price Each 1	100	500	1000	Reel Qty	Price Per Piece
581-ML03511R0AAT2A	ML03511R0AAT2A	1	50	.51	.38	.35	.32	3000	.31
581-ML03511R0BAT2A	ML03511R0BAT2A	1	50	.34	.26	.23	.21	3000	.20
581-ML03511R1BAT2A	ML03511R1BAT2A	1.1	50	.34	.26	.23	.21	3000	.20
581-ML03511R2BAT2A	ML03511R2BAT2A	1.5	50	.34	.26	.23	.21	3000	.20
581-ML03511R3BAT2A	ML03511R3BAT2A	1.3	50	.34	.26	.23	.21	3000	.20
581-ML03511R4BAT2A	ML03511R4BAT2A	1.4	50	.34	.26	.23	.21	3000	.20
581-ML03511R5BAT2A	ML03511R5BAT2A	1.5	50	.34	.26	.23	.21	3000	.20
581-ML03511R6BAT2A	ML03511R6BAT2A	1.6	50	.34	.26	.23	.21	3000	.20
581-ML03511R7BAT2A	ML03511R7BAT2A	1.7	50	.34	.26	.23	.21	3000	.20
581-ML03511R8BAT2A	ML03511R8BAT2A	1.8	50	.34	.26	.23	.21	3000	.20
581-ML03511R9BAT2A	ML03511R9BAT2A	1.9	50	.34	.26	.23	.21	3000	.20
581-ML03512R0BAT2A	ML03512R0BAT2A	2	50	.34	.26	.23	.21	3000	.20
581-ML03512R1BAT2A	ML03512R1BAT2A	2.1	50	.34	.26	.23	.21	3000	.20
581-ML03512R2BAT2A	ML03512R2BAT2A	2.2	50	.34	.26	.23	.21	3000	.20
581-ML03512R3BAT2A	ML03512R3BAT2A	2.3	50	.34	.26	.23	.21	3000	.20
581-ML03512R4BAT2A	ML03512R4BAT2A	2.4	50	.34	.26	.23	.21	3000	.20
581-ML03512R5BAT2A	ML03512R5BAT2A	2.5	50	.34	.26	.23	.21	3000	.20

These porcelain and ceramic dielectric multilayer capacitor (MLC) chips are best suited for RF/Microwave applications typically ranging from 10MHz to 4.2GHz. Characteristic is a fine grained, high density, high purity dielectric material impervious to moisture with heavy internal palladium electrodes.

Specifications:
- High current carrying capabilities
- High quality factors
- Excellent stability under stresses of changing voltage, frequency, time and temperature
- Temperature coefficient: (M) +90 ±20PPM°C, (A) ±30PPM°C



DIMENSIONS: in. (mm)				
Case	Length (L)	Width (W)	Thickness (T)	Band Width (bw)
SQCA / AQ12	.055 +.015 -.010 (1.40 +.381 -.254)	.055 ± .015 (1.40 ± .381)	.020/.057 (.508/1.45)	.010 +.010 -.005 (.254 +.254 -.127)
SQCB / AQ14	.110 +.020 -.010 (2.79 +.889 -.254)	.110±.010 (2.79±.508)	.030/.102 (.762/2.59)	.015±.010 (.381±.254)
UQCA	.055 + .015 - .010 (1.40+ .381 - .254)	.055±.015 (1.40±.381)	.057 (1.45) max.	.010 + .010 -.005 (.254 +.254 -.127)
UQCB	.110 + .020 - .010 (2.79 +.508 -.254)	.110±.015 (2.79±.381)	.102 (2.59) max.	.015±.010 (.381±.254)

AQ SERIES

NEW PRODUCT

For quantities greater than listed, call for quote.

MOUSER STOCK NO. / Mfr. Part No.	Value (µF)	Volt	Tol. ±	Temp. Coef.	Price Each 1	50	100	500	1000
Style AQ12									
581—AQ12EM0R8BATME	0.8	150	0.1pF	M	2.94	1.96	1.47	1.23	1.10
581—AQ12EM1R0BATME	1.0	150	0.1pF	M	2.94	1.96	1.47	1.23	1.10
581—AQ12EM1R8BATME	1.8	150	0.1pF	M	2.88	2.29	2.16	1.47	1.34
581—AQ12EM2R2DATME	2.2	150	0.5pF	M	1.38	1.08	1.02	.68	.63
581—AQ12EM2R7BATME	2.7	150	0.1pF	M	2.94	1.96	1.47	1.23	1.10
581—AQ12EM3R3BATME	3.3	150	0.1pF	M	2.94	1.96	1.47	1.23	1.10
581—AQ12EM3R9BATME	3.9	150	0.1pF	M	2.94	1.96	1.47	1.23	1.10
581—AQ12EM5R1BATME	5.1	150	0.1pF	M	2.94	1.96	1.47	1.23	1.10
581—AQ12EM100GATME	10	150	2%	M	1.87	1.77	1.73	1.53	1.38
581—AQ12EM560JATME	56	150	5%	M	1.59	1.26	1.19	.81	.74
581—AQ12EM101GATME	100	150	2%	M	3.14	2.50	2.36	1.60	1.46
Style AQ14									
581—AQ147M0R1BATME	0.1	500	0.1pF	M	2.04	1.20	1.02	.89	.73
581—AQ147M0R4BATME	0.4	500	0.1pF	M	2.04	1.20	1.02	.89	.73
581—AQ147M0R5BATME	0.5	500	0.1pF	M	2.04	1.20	1.02	.89	.73
581—AQ147M0R7BATME	0.7	500	0.1pF	M	2.04	1.20	1.02	.89	.73
581—AQ147M0R9BATME	0.9	500	0.1pF	M	2.78	2.64	2.57	2.28	2.06
581—AQ147M1R0BATME	1.0	500	0.1pF	M	3.92	3.11	2.94	2.00	1.82
581—AQ147M1R1BATME	1.1	500	0.1pF	M	2.04	1.20	1.02	.89	.73
581—AQ147M1R2BATME	1.2	500	0.1pF	M	3.92	3.11	2.94	2.00	1.82
581—AQ147M1R3BATME	1.3	500	0.1pF	M	2.04	1.20	1.02	.89	.73
581—AQ147M2R7BATME	2.7	500	0.1pF	M	3.92	3.11	2.94	2.00	1.82
581—AQ147M3R9BATME	3.9	500	0.1pF	M	4.07	3.23	3.05	2.07	1.89
581—AQ147M5R6BATME	5.6	500	0.1pF	M	4.07	3.23	3.05	2.07	1.89
581—AQ147M8R2BATME	8.2	500	0.1pF	M	4.74	3.76	3.55	2.41	2.20
581—AQ147M100JATME	10	500	5%	M	1.21	1.15	1.10	.99	.88
581—AQ147M100FATME	10	500	1%	M	4.51	3.58	3.38	2.30	2.10
581—AQ147M110GATME	11	500	2%	M	2.96	2.35	2.22	1.50	1.37
581—AQ147M150FATME	15	500	1%	M	4.51	3.58	3.38	2.30	2.10
581—AQ147M200JATME	20	500	5%	M	1.21	1.15	1.10	.99	.88
581—AQ147M270JATME	27	500	5%	M	1.70	1.35	1.27	.87	.79
581—AQ147A470JATME	47	500	5%	A	2.03	1.61	1.52	1.03	.95
581—AQ147A510JATME	51	500	5%	A	2.03	1.61	1.52	1.03	.95
581—AQ147M560JATME	56	500	5%	M	1.37	1.31	1.25	1.12	1.00
581—AQ147M680JATME	68	500	5%	M	1.37	1.31	1.25	1.12	1.00
581—AQ147M820JATME	82	500	5%	M	1.37	1.31	1.25	1.12	1.00
581—AQ147M101JATME	100	500	5%	M	1.37	1.31	1.25	1.12	1.00
581—AQ149A151FATME	150	300	1%	A	6.00	4.76	4.50	3.05	2.79
581—AQ142M271JATME	270	200	5%	M	1.37	1.31	1.25	1.12	1.00
581—AQ142M391JATME	390	200	5%	M	1.76	1.68	1.60	1.42	1.27
581—AQ142A431KATME	430	200	10%	A	1.35	1.08	1.01	.67	.60
581—AQ142M471JATME	470	200	5%	M	1.76	1.68	1.60	1.42	1.27
581—AQ14EM821JATME	820	150	5%	M	3.33	2.64	2.50	1.69	1.55
581—AQ14EM102JATME	1000	150	5%	M	3.77	3.00	2.83	1.92	1.75
581—AQ14EA102KATME	1000	150	10%	A	2.94	1.96	1.47	1.23	1.10
Style SQCA									
581—SQCAEM0R1BATME	0.1	150	0.1pF	M	2.09	1.99	1.90	1.71	1.52
581—SQCAEM0R2BATME	0.2	150	0.1pF	M	2.09	1.99	1.90	1.71	1.52
581—SQCAEM0R4BATME	0.4	150	0.1pF	M	2.09	1.99	1.90	1.71	1.52
581—SQCAEM0R5BATME	0.5	150	0.1pF	M	2.09	1.99	1.90	1.71	1.52
581—SQCAVM0R5BATME	0.5	250	0.1pF	M	2.09	1.99	1.90	1.71	1.52
581—SQCAEM0R8BATME	0.8	150	0.1pF	M	2.09	1.99	1.90	1.71	1.52
581—SQCAVM1R0BATME	1	250	0.1pF	M	2.14	2.04	1.95	1.75	1.56
581—SQCAEM1R5BATME	1.5	150	0.1pF	M	2.14	2.04	1.95	1.75	1.56
581—SQCAEM1R8BATME	1.8	150	0.1pF	M	2.14	2.04	1.95	1.75	1.56

SQ SERIES

NEW PRODUCT

For quantities greater than listed, call for quote.

MOUSER STOCK NO. / Mfr. Part No.	Value (µF)	Volt	Tol. ±	Temp. Coef.	Price Each 1	50	100	500	1000
Style SQCA (Cont.)									
581—SQCAEM2R4BATME	2.4	150	0.1pF	M	2.14	2.04	1.95	1.75	1.56
581—SQCAVM2R4BATME	2.4	250	0.1pF	M	2.14	2.04	1.95	1.75	1.56
581—SQCAEM2R7BATME	2.7	150	0.1pF	M	2.14	2.04	1.95	1.75	1.56
581—SQCAEM3R0BATME	3	150	0.1pF	M	2.22	2.12	2.02	1.82	1.62
581—SQCAEM3R6BATME	3.6	150	0.1pF	M	1.34	1.28	1.22	1.10	.98
581—SQCAEM3R9BATME	3.9	150	0.1pF	M	2.22	2.12	2.02	1.82	1.62
581—SQCAVM4R7BATME	4.7	250	0.1pF	M	2.22	2.12	2.02	1.82	1.62
581—SQCAEM6R8BATME	6.8	150	0.1pF	M	2.58	2.46	2.35	1.41	1.36
581—SQCAVM8R2BATME	8.2	250	0.1pF	M	2.58	2.46	2.35	1.41	1.36
581—SQCAEM100FATME	10	150	1%	M	2.32	2.20	2.04	1.91	1.72
581—SQCAVM100JATME	10	250	5%	M	1.25	1.08	.93	.62	.55
581—SQCAVM270JATME	27	250	5%	M	.88	.84	.80	.48	.46
581—SQCAVM390JATME	39	250	5%	M	.88	.84	.80	.48	.46
581—SQCAVM470JATME	47	250	5%	M	1.35	1.08	1.01	.67	.60
581—SQCAEM910JATME	91	150	5%	M	1.37	1.31	1.25	1.12	1.00
581—SQCAEA101JATME	100	150	5%	A	1.37	1.31	1.25	1.12	1.00
581—SQCAVM101JATME	100	250	5%	M	1.29	1.23	1.17	.71	.68
581—SQCA5A102JATME	1000	50	5%	A	2.43	2.30	2.14	2.00	1.80
Style SQCB									
581—SQCB7M1R0BATME	1.0	500	0.1pF	M	2.91	2.78	2.65	2.38	2.12
581—SQCB7M2R7BATME	2.7	500	0.1pF	M	2.91	2.78	2.65	2.38	2.12
581—SQCB7M5R6BATME	5.6	500	0.1pF	M	3.02	2.83	2.68	2.47	2.20
581—SQCB7M6R8BATME	6.8	500	0.1pF	M	3.45	3.28	3.04	2.84	2.56
581—SQCB7M100JATME	10	500	5%	M	1.21	1.15	1.10	.99	.88
581—SQCB7M200JATME	20	500	5%	M	1.21	1.15	1.10	.99	.88
581—SQCB7M270JATME	27	500	5%	M	1.26	1.20	1.15	1.03	.92
581—SQCB7M470JATME	47	500	5%	M	1.37	1.31	1.25	1.12	1.00
581—SQCB7M560JATME	56	500	5%	M	1.37	1.31	1.25	1.12	1.00
581—SQCB7M820JATME	82	500	5%	M	1.37	1.31	1.25	1.12	1.00
581—SQCB7M101JATME	100	500	5%	M	1.37	1.31	1.25	1.12	1.00
581—SQCB2M391JATME	390	200	5%	M	1.76	1.68	1.60	1.44	1.28
581—SQCB2M471JATME	470	200	5%	M	1.76	1.68	1.60	1.44	1.28

UQ SERIES

For quantities greater than listed, call for quote.

MOUSER STOCK NO. / Mfr. Part No.	Value (µF)	Volt	Tol. ±	Temp. Coef.	Price Each 1	50	100	500	1000
Style UQCA									
581—UQCAEA4R7BATME	4.7	150	0.1pF	A	2.55	1.91	1.73	1.36	1.28
581—UQCAEA6R8BATME	6.8	150	0.1pF	A	2.91	2.78	2.65	2.37	1.80
581—UQCAEA101JATME	100	150	5%	A	5.61	4.08	3.31	1.91	.92
Style UQCB									
581—UQCB7A4R7BATME	4.7	500	0.1pF	A	10.56	7.35	4.46	1.72	1.56
581—UQCB7A180JATME	18	500	5%	A	6.38	4.64	3.77	2.17	.95
581—UQCB7A220JATME	22	500	5%	A	6.38	4.64	3.77	2.17	.95
581—UQCB7A430JATME	43	500	5%	A	6.38	4.64	3.77	2.17	1.04
581—UQCB7A560JATME	56	500	5%	A	6.38	4.64	3.77	2.17	1.04
581—UQCB7A101JATME	100	500	5%	A	6.38	4.64	3.77	2.17	1.04
581—UQCBEA102JATME	1000	150	5%	A	10.56	7.35	4.46	1.72	1.56