

AVX Automotive MLCC



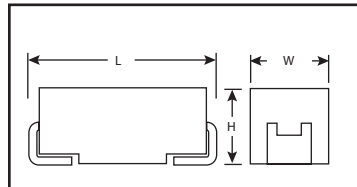
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AVX MH CERAMIC CAPACITORS

Lead Free Ceramic Capacitor in Molded SM Leadframe

AVX are pleased to introduce the MH range of multilayer ceramic capacitors. The MH components are surface mount molded parts with a multilayer ceramic insert. MH capacitors combine the ceramic attributes of very low ESR, non polar construction, excellent high frequency behavior, excellent voltage stress capabilities and wide temperature range; with the enhanced mechanical protection of a molded case. The MH range provides a lead free solution to customers who have previously been unable to use large case ceramic capacitors because of mechanical stressing concerns.

- Tin plated
- 7th reel



DIMENSIONS: mm (in.)		
L±0.20(0.008)	W+0.20(0.008) -0.10(0.004)	H+0.20(0.008) -0.10(0.004)
7.30 (0.287)	6.10 (0.240)	3.45±0.30 (0.136±0.012)



LEAD-FREE RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	AVX Part No.	Temp Coeff.	Value (pF)	Volt.	Price Each			Reel Qty	Price Per Piece
					1	10	100		
581-MHV11C105MAT2A	MHV11C105MAT2A	X7R	1.0	100	13.94	12.04	9.81	400	4.77
581-MHV11C155MAT2A	MHV11C155MAT2A	X7R	1.5	100	14.52	12.54	10.22	400	4.96
581-MHV11C225MAT2A	MHV11C225MAT2A	X7R	2.2	100	15.42	13.31	10.85	400	5.27
581-MHV15C475MAT2A	MHV15C475MAT2A	X7R	4.7	50	16.30	13.77	11.30	400	5.43
581-MHV13C106MAT2A	MHV13C106MAT2A	X7R	10	25	16.21	14.00	11.40	400	5.54
581-MHV15C106MAT2A	MHV15C106MAT2A	X7R	10	50	16.21	14.00	11.40	400	5.54
581-MHV13C226MAT2A	MHV13C226MAT2A	X7R	22	25	16.31	14.09	11.48	400	5.58

AVX AUTOMOTIVE MLCC

AVX Corporation has supported the automotive industry requirements for multilayer ceramic capacitors consistently for more than 10 years. Products have been developed and tested specifically for automotive applications and all manufacturing facilities are QS9000 and VDA 6.4 approved.

As part of AVX's sustained investment in capacity and state of the art technology, they are now transitioning from the established Pd/Ag electrode system to a Base Metal Electrode system (BME).

AVX is using AECQ200 as the qualification vehicle for this transition. A detailed qualification package is available on request and contains results on a range of part numbers including:

- X7R dielectric components containing BME electrode and copper terminations with a Ni/Sn plated overcoat
- C0G/NP0 dielectric components containing Pd/Ag electrode and silver termination with a Ni/Sn plated overcoat



RoHS Compliant

DIMENSIONS: mm (in.)					
Size	0603	0805	1206	1210	
(L)	1.60 ± .15 (.063 ± .006)	2.01 ± .20 (.079 ± .008)	3.20 ± 0.20 (.126 ± .008)	3.20 ± 0.20 (.126 ± .008)	
Length					
(W)	.81 ± .15 (.032 ± .006)	1.25 ± .20 (.049 ± .008)	1.60 ± 0.20 (.063 ± .008)	2.50 ± 0.20 (.098 ± .008)	
Width					
(t)	.80 ± .10	1.25 ± .20	0.50 ± 0.25	0.50 ± 0.25	
Thickness					
	(.014 ± .006)	(.020 ± .010)	(.020 ± .010)	(0.020 ± 0.010)	

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MOUSER STOCK NO.	AVX Part No.	Temp Coeff.	Value (pF)	Volt.	Tol. ± (%)	Price Each			Reel Qty	Price Per Piece
						1	100	500		
Style 0603										
581-06035A100J4	06035A100J4T2A	COG	10	50	5	.19	.13	.11	4000	.06
581-06035A220J4	06035A220J4T2A	COG	22	50	5	.13	.08	.04	4000	.025
581-06035A330J4	06035A330J4T2A	COG	33	50	5	.34	.14	.13	4000	.05
581-06035A470J4	06035A470J4T2A	COG	47	50	5	.13	.08	.04	4000	.025
581-06035A680J4	06035A680J4T2A	COG	68	50	5	.13	.08	.04	4000	.025
581-06035A101J4	06035A101J4T2A	COG	100	50	5	.19	.13	.11	4000	.06
581-06035A221J4	06035A221J4T2A	COG	220	50	5	.22	.136	.07	4000	.038
581-06035A331J4	06035A331J4T2A	COG	330	50	5	.13	.08	.05	4000	.045
581-06035A471J4	06035A471J4T2A	COG	470	50	5	.17	.065	.055	4000	.035
581-06035C102K4	06035C102K4T2A	X7R	1000	50	10	.19	.15	.12	4000	.038
581-06035C102K4	06035F102K4T2A	X8R	1000	50	10	.22	.182	.105	4000	.038
581-06035C222K4	06035C222K4T2A	X7R	2200	50	10	.18	.15	.12	4000	.038
581-06035C332K4	06035C332K4T2A	X7R	3300	50	10	.18	.15	.12	4000	.038
581-06035C472K4	06035C472K4T2A	X7R	4700	50	10	.18	.15	.12	4000	.04
581-06035C682K4	06035C682K4T2A	X7R	6800	50	10	.19	.13	.11	4000	.06
581-06035C103K4	06035C103K4T2A	X7R	10000	50	10	.41	.214	.123	4000	.084
581-06035F103K4	06035F103K4T2A	X8R	10000	50	10	.36	.123	.071	4000	.025
581-06035C223K4	06035C223K4T2A	X7R	22000	50	10	.25	.195	.123	4000	.051
581-06035C333K4	06035C333K4T2A	X7R	33000	50	10	.22	.12	.075	4000	.05
581-06035C473K4	06035C473K4T2A	X7R	47000	50	10	.27	.178	.103	4000	.058
581-06035F473K4	06035F473K4T2A	X8R	47000	50	10	.31	.26	.153	4000	.056
581-06035C683K4	06035C683K4T2A	X8R	68000	25	10	.31	.25	.146	4000	.063
581-06035C104K4	06035C104K4T2A	X7R	0.1µF	16	10	.22	.13	.078	4000	.049
581-06035C104K4	06035C104K4T2A	X7R	0.1µF	25	10	.45	.14	.11	4000	.072
581-06035C104K4	06035C104K4T2A	X7R	0.1µF	50	10	.45	.14	.11	4000	.072
581-06035L104K4T2A	06035L104K4T2A	X8L	0.1µF	50	10	.67	.40	.34	4000	.121

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	AVX Part No.	Temp Coeff.	Value (pF)	Volt.	Tol. ± (%)	Price Each			Reel Qty	Price Per Piece
						1	100	500		
Style 0805										
581-08051A100J4	08051A100J4T2A	COG	10	100	5	.13	.08	.05	4000	.045
581-08055A220J4T2A	08055A220J4T2A	COG	22	50	5	.20	.15	.086	4000	.033
581-08051A220J4	08051A220J4T2A	COG	22	100	5	.20	.15	.086	4000	.04
581-08051A470J4	08051A470J4T2A	COG	47	100	5	.13	.08	.05	4000	.045
581-08051A101J4	08051A101J4T2A	COG	100	100	5	.19	.136	.078	4000	.038
581-08051A101J4T4A	08051A101J4T4A	COG	100	100	5	.22	.16	.106	10000	.04
581-08051A221J4	08051A221J4T2A	COG	220	100	5	.24	.149	.09	4000	.039
581-08051A331J4	08051A331J4T2A	COG	330	100	5	.29	.24	.17	4000	.07
581-08051A471J4	08051A471J4T2A	COG	470	100	5	.29	.24	.17	4000	.07
581-08051A681J4	08051A681J4T2A	COG	680	100	5	.20	.162	.093	4000	.037
581-08055F102K4	08055F102K4T2A	X8R	1000	50	10	.28	.195	.112	4000	.041
581-08055C102K4	08055C102K4T2A	X7R	1000	50	10	.20	.15	.086	4000	.045
581-08051A102J4	08051A102J4T2A	COG	1000	100	5	.19	.13	.105	4000	.059
581-08052C102K4T2A	08052C102K4T2A	X7R	1000	200	10	.20	.15	.086	4000	.04
581-08055F222K4	08055F222K4T2A	X8R	2200	50	10	.35	.172	.131	4000	.065
581-08055C472K4	08055C472K4T2A	X7R	4700	50	10	.20	.15	.086	4000	.04
581-08055C472K4T4A	08055C472K4T4A	X7R	4700	50	10	.20	.15	.086	10000	.035
581-08051C472K4T2A	08051C472K4T2A	X7R	4700	100	10	.20	.15	.086	4000	.04
581-08055C682K4	08055C682K4T2A	X7R	6800	50	10	.20	.15	.086	4000	.04
581-08055F103K4	08055F103K4T2A	X8R	10000	50	10	.28	.195	.112	4000	.058
581-08055C103K4	08055C103K4T2A	X7R	10000	50	10	.20	.15	.086	4000	.04
581-08051C103K4	08051C103K4T2A	X7R	10000	100	10	.20	.15	.086	4000	.045
581-08055C223K4	08055C223K4T2A	X7R	22000	50	10	.26	.22	.16	4000	.046
581-08051C223K4	08051C223K4T2A	X7R	22000	100	10	.26	.22	.16	4000	.046
581-08055C333K4	08055C333K4T2A	X7R	33000	50	10	.26	.22	.16	4000	.046
581-08055F333K4	08055F333K4T2A	X8R	33000	50	10	.35	.227	.131	4000	.063
581-08055C473K4	08055C473K4T2A	X7R	47000	50	10	.26	.22	.16	4000	.046
581-08055F473K4	08055F473K4T2A	X8R	47000	50	10	.35	.172	.131	4000	.063
581-08051C473K4	08051C473K4T2A	X7R	47000	100	10	.17	.15	.14	2000	.061
581-08055C683K4	08055C683K4T2A	X7R	68000	50	10	.35	.227	.131	4000	.063
581-08055F223K4	08055F223K4T2A	X8R	0.22µF	50	10	.35	.172	.131	4000	.063