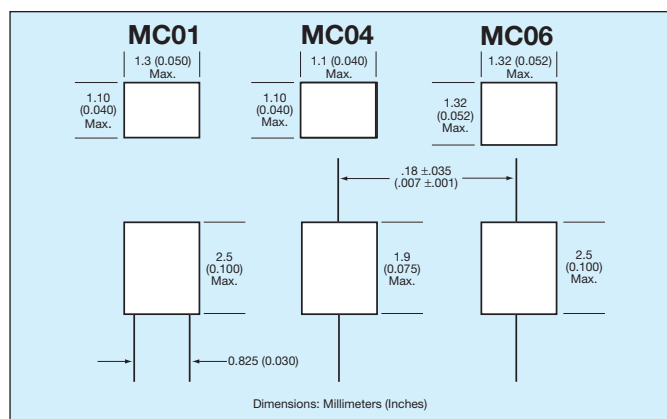


Axial Leads/Mini-Ceramic Capacitor® **AVX**

GENERAL DESCRIPTION

AVX's new mini-ceramic capacitor (MC04) is only 0.040" thick by 0.040" wide by 0.075" long, smaller size than AVX's MINITAN (TMH Series) "X" case size, 0.040" by 0.050" by long 0.075". This allows the lower value ceramic multilayer capacitors to fit into the same designs as the AVX tantalum capacitor's "X" size. It uses the same solder coated pure nickel lead wire suitable for either soldering or welding.



HOW TO ORDER

MC04	6	D	104	K	A	A
Component Size	Voltage Rating	Dielectric	Capacitance	Capacitance Tolerance	Failure Rate	Packaging Standard
MC01 MC04 MC06	6 = 6.3V Y = 16V Z = 10V 5 = 50V 3 = 25V	C = X7R D = X5R A = NP0	First two digits are the significant figures of capacitance. Third digit indicates the additional number of zeros. For example, order 100,000 pF as 104. (For values below 10pF use "R" in place of decimal point, e.g., 1R4 = 1.4pF)	X7R & X5R: K = ±10% M = ±20% NP0: D = ±0.5pF J = ±5% K = ±10%	A = Not Applicable	25 pieces per bag

SIZE AND CAPACITANCE SPECIFICATIONS

Dimensions: Millimeters (Inches)

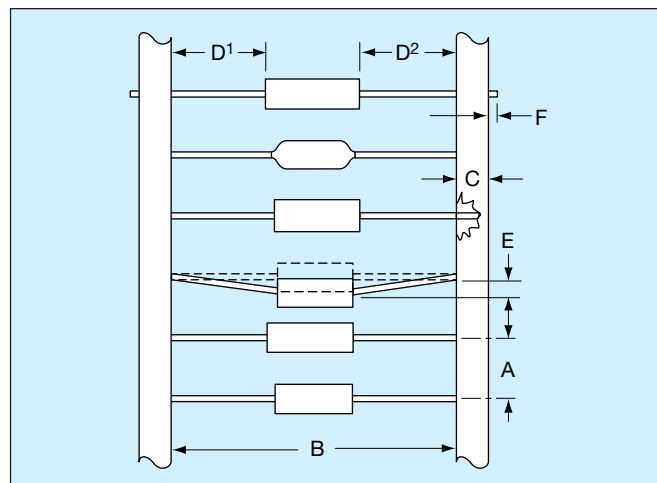
AVX Style	MC01	MC04	MC06
Max Length	2.5 (.100)	1.9 (.075)	2.5 (.100)
Max Width	1.3 (.050)	1.1 (.040)	1.32 (.052)
Max Thickness	1.1 (.040)	1.1 (.040)	1.32 (.052)
Lead Diameter	.178 ± .025 (.007 ± .001)		
Lead Spacing	0.825 ± 0.127 (.025 ± .005)	N/A	N/A
Type	Radial	Axial	Axial
Cap. in pF	Typical AVX Part Nos.	WVDC	WVDC
		16 6.3	50 25 16 6.3
		16 6.3	16 6.3
		NP0	
6.8	MC***A6R8DAA		
10	MC***A100JAA		
18	MC***A180KAA		
		X7R	
330	MC***C331KAA		
560	MC***C561KAA		
1000	MC***C102KAA		
1500	MC***C152KAA		
2200	MC***C222KAA		
2700	MC***C272KAA		
3300	MC***C332KAA		
4700	MC***C472KAA		
6800	MC***C682KAA		
10,000	MC***C103KAA		
15,000	MC***C153KAA		
22,000	MC***C223KAA		
		X5R	
33,000	MC***D333KAA		
47,000	MC***D473KAA		
68,000	MC***D683KAA		
100,000	MC***D104KAA		
150,000	MC***D154KAA		
220,000	MC***D224KAA		
330,000	MC***D334KAA		
470,000	MC***D474KAA		
1,000,000	MC***D105KAA		
2,200,000	MC***D225KAA		

MARKING

Three digit Capacitance Code

TAPE AND REEL

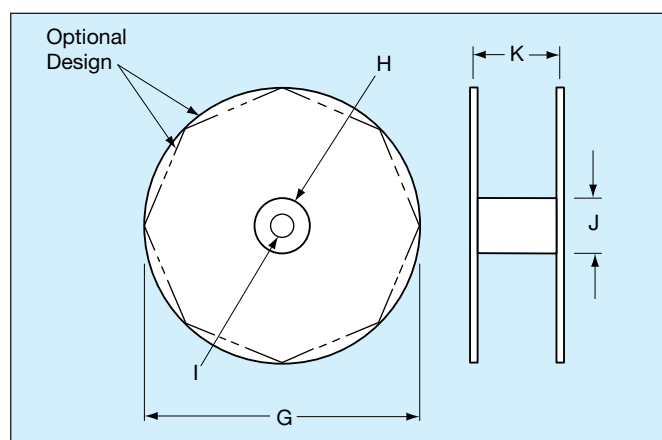
CLASS I / RS-296	
A.	5mm ± 0.5mm (.200" ± 0.020")
B*.	52.4mm ± 1.5mm (2.063" ± 0.059")
C.	6.35mm ± 0.4mm (0.250" ± 0.016")
D ¹ -D ² .	1.4mm (0.055" MAX.)
E.	1.2mm (0.047" MAX.)
F.	1.6mm (0.063" MAX.)
G.	356mm (14.00")
H.	76mm (3.000")
I.	25.4mm (1.000")
J.	84mm (3.300")
K.	70mm (2.750")



Leader Tape: 300mm min. (12")

Splicing: Tape Only

Missing Parts: 0.25% of component count max.-
No consecutive missing parts



REEL QUANTITIES (MAX.) ‡

SA05	7,500 pcs.	MA10	5,000 pcs.
SA10	7,500 pcs.	MA20	5,000 pcs.
SA11	5,000 pcs.	MA30	3,000 pcs.
SA20	5,000 pcs.	MA40	3,000 pcs.
SA30	5,000 pcs.	MA50	950 pcs.
SA40	5,000 pcs.	MA60	650 pcs.

‡ 1000 pc. reels available for distribution pack only in ±1% and ±2% tolerance.

* Standard Tape Spacing Shown. Also available in 26.0mm + 1.5mm, - 0mm, (1.023 in. + .059 in. - 0 in.) for SpinGuards only. EIA Class I, II and III tape spacings are available for molded axials. Tape spacing for Class II is 63.5mm ± 1.5mm (2.50 in ± .059 in), and for Class III 73mm ± 1.5mm (2.87 in ± .059 in)

ADDITIONAL PACKAGING AVAILABLE

AMMO PACK

Tape Spacing	SA05, SA10 SA20	SA11 SA30	SA40	BOX SIZES (Nominal)		
				L	W	H
52.4mm ± 1.5mm (2.062" ± .059")	4,000 pcs.	2000	2,000 pcs.	255mm (10.039")	73mm (2.874")	93mm (3.661")
26.0mm + 1.5mm - 0mm (1.023" + .059" - 0")	4,000 pcs.*	2000	2,000 pcs.*	255mm (10.039")	48mm (1.889")	113mm (4.448")

*SpinGuard only

BULK PACK (MOLDED AXIALS ONLY)

MA10 MA20 MA30 MA40	100 pcs. (bag)
MA50 MA60	50 pcs. (bag)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

AVX:

[MC01YC103KAR](#) [MC066D105KAA](#) [MC043A180KAA](#) [MC01YC222KAR](#) [MC01YC332KAR](#) [MC01YC682KAR](#)
[MC04YC103KAA](#) [MC046D473KAA](#) [MC046D224KAA](#) [MC04YC472KAA](#) [MC01YC223KAR](#) [MC066D225KAA](#)
[MC016D333KAR](#) [MC016D473KAR](#) [MC026D474KAA](#) [MC04YC682KAA](#) [MC046D683KAA](#) [MC016D104KAR](#)
[MC01YC472KAR](#) [MC04YC102KAA](#) [MC016D224KAR](#) [MC04YC153KAA](#) [MC04YC332KAA](#) [MC066D225MAA](#)
[MC016D683KAR](#)