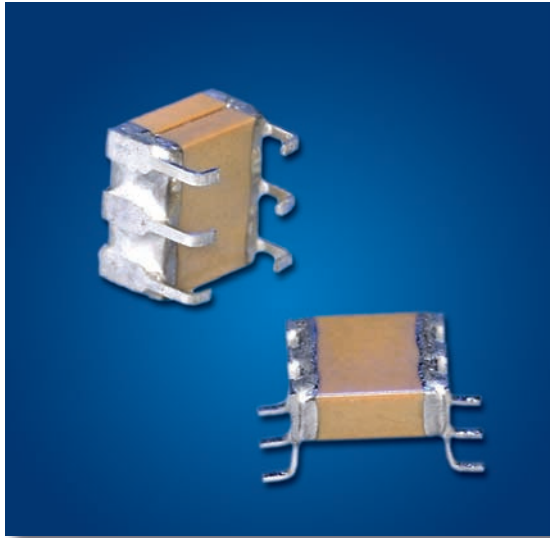


MINI-SWITCH MODE® CAPACITORS



AMC's Mini-Switch Mode® ceramic capacitors combine the advantages of high capacitance found in tantalum capacitors with very low ESR performance of ceramic capacitors. The “J” and “L” lead configurations provide mechanical stress relief to prevent cracking of large surface mounted ceramic capacitors due to thermal cycling. These features make them ideal for use in Belcore compliant DC-DC converter designs and many other applications.

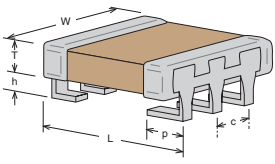
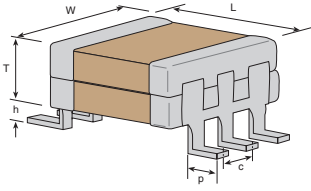
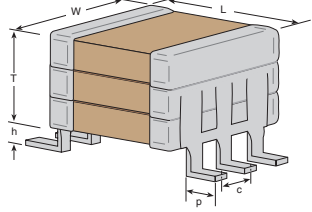
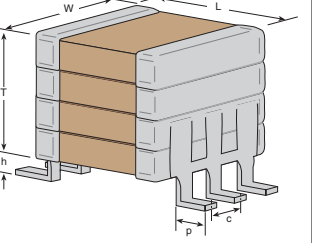
KEY FEATURES

- “J” & “L” Surface mount Leads Offer Mechanical Stress Relief From TCE Mis-matches
- 50 to 500 VDC Ratings
- Custom Sizes, Voltages, and Values Available
- Ideal for DC-DC Power Supply Applications

CAPACITANCE SELECTION

CASE SIZE	CHIP STACK	MAX Height In. (mm)		50 VDC		100 VDC		200 VDC		250 VDC		500 VDC	
				CAP	CODE	CAP	CODE	CAP	CODE	CAP	CODE	CAP	CODE
P08	Single Chip	.095 (2.41)	MIN	0.10 μ F	104	0.10 μ F	104	0.10 μ F	104	0.10 μ F	104	0.10 μ F	104
			MAX	2.2 μ F	225	1.5 μ F	155	1.2 μ F	125	1.2 μ F	125	0.39 μ F	394
P28	Two Chips	.190 (4.83)	MIN	1.5 μ F	225	1.8 μ F	185	1.5 μ F	155	1.5 μ F	155	0.47 μ F	474
			MAX	3.9 μ F	395	2.7 μ F	275	2.2 μ F	225	2.2 μ F	225	.82 μ F	824
P38	Three Chips	.285 (7.24)	MIN	4.7 μ F	475	3.3 μ F	335	2.7 μ F	275	2.7 μ F	275	1.0 μ F	105
			MAX	5.6 μ F	565	3.9 μ F	395	3.3 μ F	335	3.3 μ F	335	1.2 μ F	125
P48	Four Chips	.380 (9.65)	MIN	6.8 μ F	685	4.7 μ F	475	3.9 μ F	395	3.9 μ F	395	1.5 μ F	155
			MAX	8.2 μ F	825	5.6 μ F	565	4.7 μ F	475	4.7 μ F	475	1.5 μ F	155

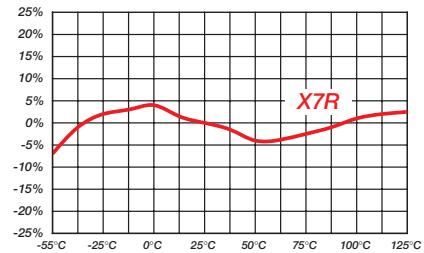
MECHANICAL CHARACTERISTICS

											
P08			P28			P38			P48		
In	(mm)	Tol.	In	(mm)	Tol.	In	(mm)	Tol.	In	(mm)	Tol.
L	.280	7.11	MAX.	L	.280	7.11	MAX.	L	.280	7.11	MAX.
W	.270	6.86	MAX.	W	.270	6.86	MAX.	W	.270	6.86	MAX.
T	.095	2.41	MAX.	T	.190	4.83	MAX.	T	.285	7.24	MAX.
h	.070	1.78	± .010"	h	.070	1.78	± .010"	h	.070	1.78	± .010"
c	.100	2.54	Typ.	c	.100	2.54	Typ.	c	.100	2.54	Typ.
p	.050	1.27	Min.	p	.050	1.27	Min.	p	.050	1.27	Min.

*J-Lead & L-Lead options available on all stack heights.

ELECTRICAL CHARACTERISTICS

TEMPERATURE COEFFICIENT:	X7R: $0 \pm 15\%$, -55 to 125°C
DISSIPATION FACTOR:	.025 (2.5%) max, 1KHz, 25°C
AGEING:	2.5% / decade hour
INSULATION RESISTANCE:	1000 F or 100 G, whichever is less @ 25°C, WVDC (1KVDC max)
DIELECTRIC STRENGTH:	750 VDC, 25°C, 50 mA max
FOR 500 V RATINGS:	2.0 X WVDC, 25°C, 50 mA max
FOR 200 -250 V RATINGS:	2.5 X WVDC, 25°C, 50 mA max
FOR 50 -100 V RATINGS:	
TEST PARAMETERS:	1Khz ± 50Hz, 1.0±0.2 VRMS, 25°C



HOW TO ORDER - MINI-SWITCH MODE®

500	P28	W	395	K	J	4	U
VOLTAGE	CASE SIZE	DIELECTRIC	CAPACITANCE	TOLERANCE	LEAD STYLE	MARKING	SPECIAL CODE
Standard Voltages: 500 = 50 V 101 = 100 V 201 = 200 V 251 = 250 V 501 = 500 V	See Dimensions	W = X7R	1st two digits are significant; third digit denotes number of zeros. 104 = 0.10 µF 395 = 3.9 µF	K = ± 10% M = ± 20% Z = +80% -20%	J = "J" Leads (formed in) L = "L" Leads (formed out)	4 = Unmarked 3 = Specified	Code Type Reel U Embossed 13" 16mm tape None Bulk Packaged AMC tape specifications conform to EIA-481.

Part number written: 500P28W395KJ4U