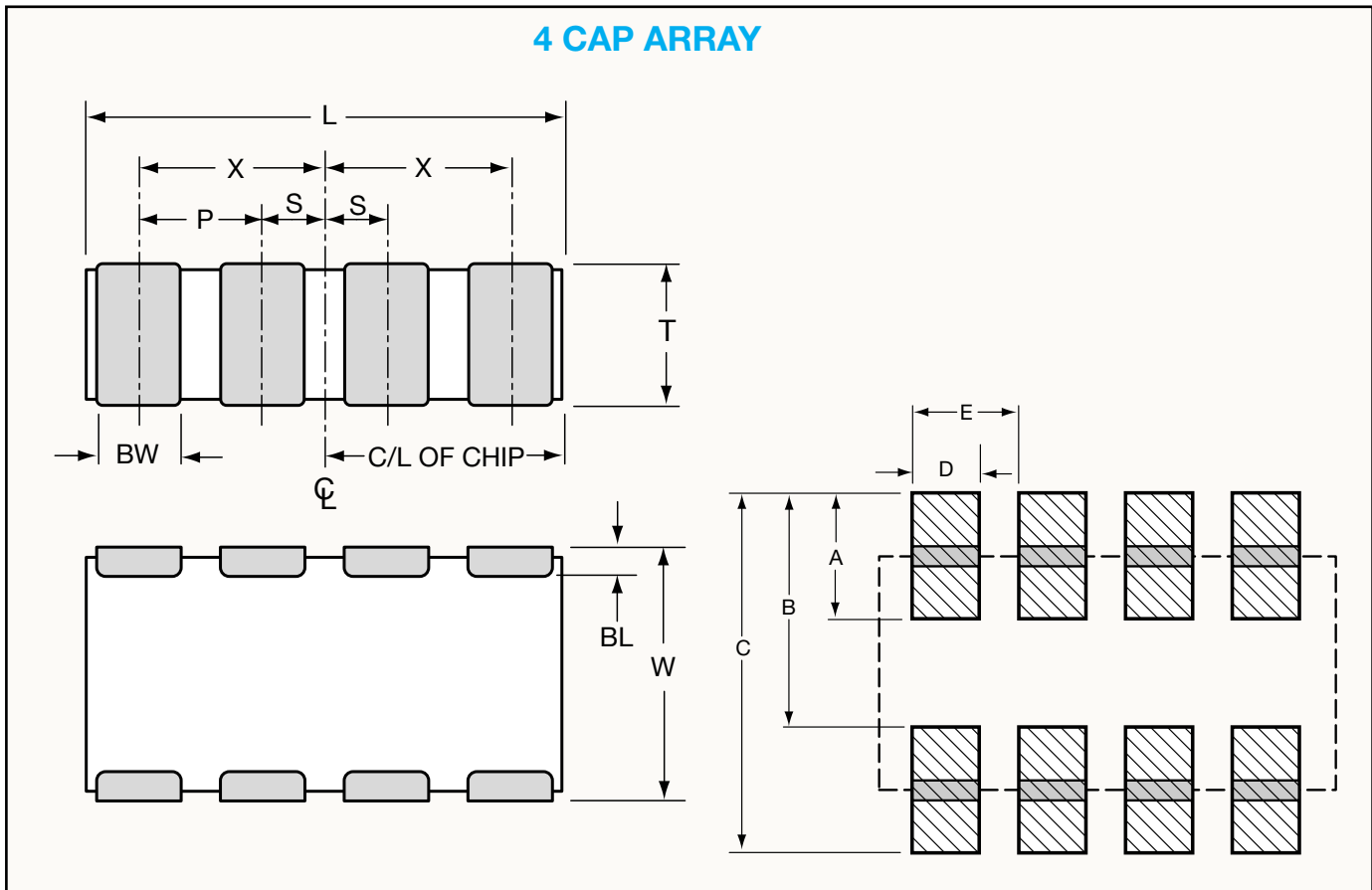


PHYSICAL DIMENSIONS AND PAD LAYOUT



PART DIMENSIONS

	L	W	T	BW	BL	P	X	S
Inches	.126±.008	.063±.008	.048 MAX	.016±.004	.007 ^{+0.010} / _{-.003}	.030 REF	.045±.004	.015±.004
(mm)	(3.20±0.2)	(1.60±0.2)	(1.22 MAX)	(0.41±0.1)	(0.18 ^{+0.25} / _{-.08})	(0.76 REF)	(1.14±0.1)	(0.38±0.1)

PAD LAYOUT DIMENSIONS

a	b	c	d	e
.035	.065	.100	.018	.030
(0.89)	(1.65)	(2.54)	(0.46)	(0.79)

PART NUMBER SCHEME

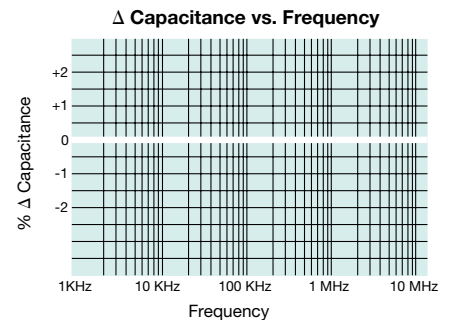
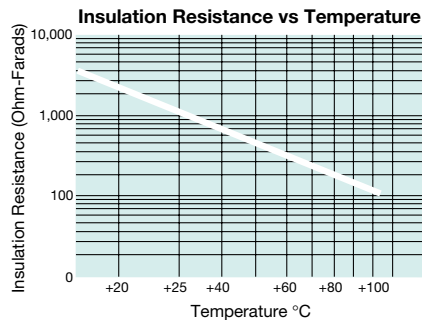
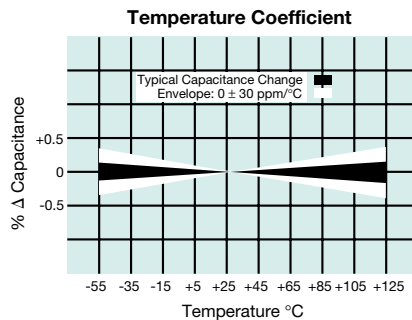
<u>W</u>	<u>3</u>	<u>A</u>	<u>4</u>	<u>3</u>	<u>C</u>	<u>103</u>	<u>K</u>	<u>A</u>	<u>T</u>	<u>3</u>	<u>A</u>
Size	Array	Number Of Caps	Voltage	Dielectric	Capacitance Code	Capacitance Tolerance	Failure Rate	Terminations	Packaging Code (Reel Size)	Quantity Code (Pcs./Reel)	
3=0612			Y=16v 3=25v 5=50v 1=100v	A=NP0 C=X7R G=Y5V		K=10% M=20% Z=+80%, -20%	A=Not Applicable	T=Plated Ni and Solder	1=7" (180mm) Reel 3=13" (330mm) Reel Paper Tape 2=7" (180mm) Reel 4=13" (330mm) Reel	F=1,000 A=2,000 4,000 or 10,000	

ASSEMBLY NOTES

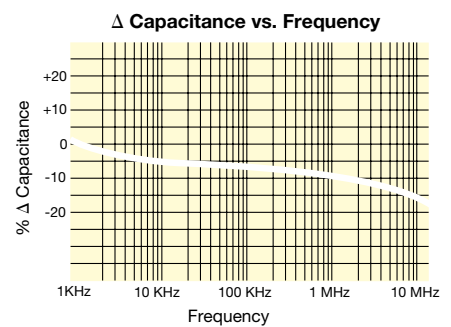
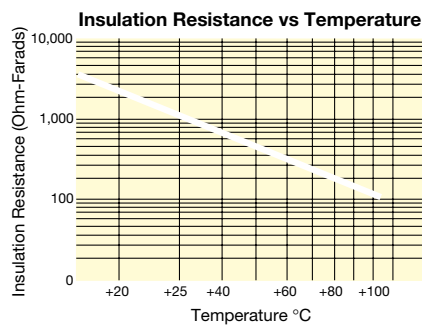
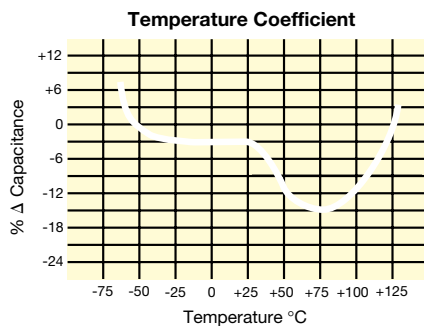
AVX recommends a minimum spacing of 0.020" between parts when placing them end to end on assembly boards. The purpose of this spacing is to facilitate post assembly board cleaning and inaccuracies in pick and placement, due to machine placement tolerances.

TYPICAL CHARACTERISTIC CURVES

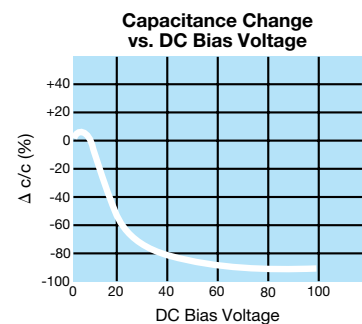
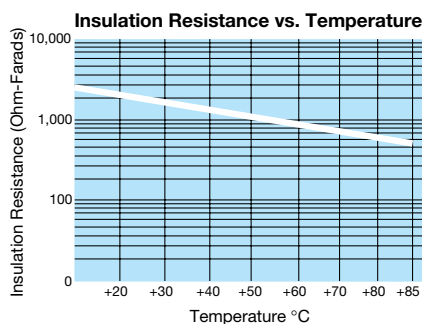
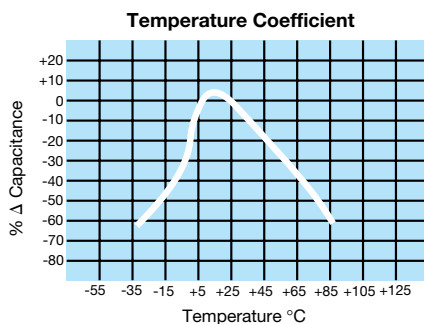
NP0 Dielectric



X7R Dielectric



Y5V Dielectric

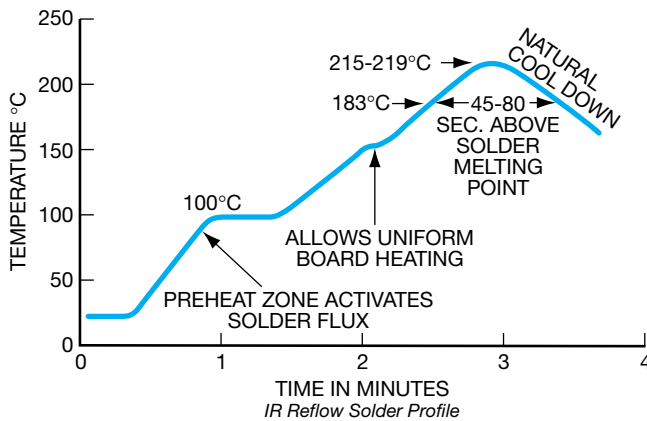


SMT APPLICATIONS

The following solderability profiles are suggested for the different soldering techniques.

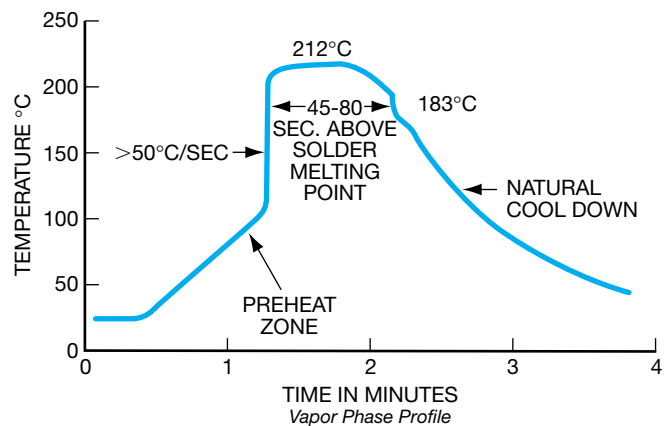
INFRARED REFLOW SOLDERING (IR)

Soldering with IR has the highest yields due to controlled heating rates and solder liquidus times. Only the dwell time and peak temperature limitations of resin-molded components need to be considered. Typical recommended solder paste wet laydown is approximately 8 mils.



VAPOR PHASE REFLOW SOLDERING

Vapor phase soldering has the second highest heat transfer rate so care must be used. Preheating the assembly and minimizing the dwell time above the solder liquidus temperature are needed to help reduce defects.



ASSEMBLY NOTES

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