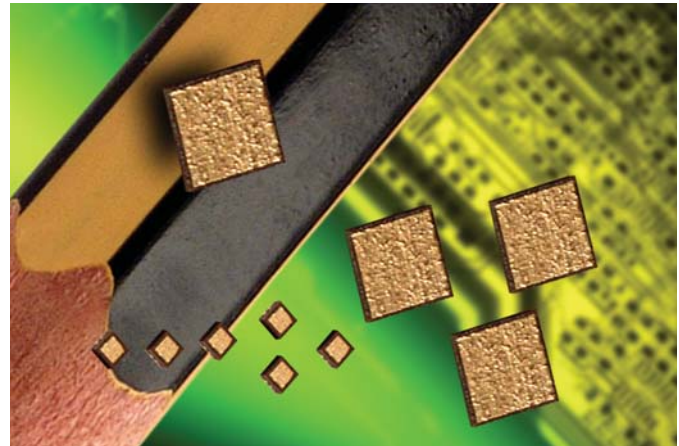


## GENERAL INFORMATION

In addition to the standard SLC products shown below, AVX is now able to offer bordered versions in these same dielectric families as detailed on the opposing page utilizing micron resolution photolithography and etching processes.

With borders precisely defined, these parts will be beneficial in those applications that require enhanced visual definition during placement and wire bonding. Additionally, bordered devices have proven effective in reducing the susceptibility to conductive epoxy electrode bridging.

SLC's with double-sided borders, .010" & .012" square units and custom designs are available on request.



## GH SERIES: SINGLE LAYER CAPACITORS WITHOUT BORDERS NP0, TEMPERATURE COMPENSATING & X7R DIELECTRICS

DIMENSIONS: inches (millimeters)

	GH10	GH15	GH20	GH25
<b>(L) Length</b>	.010±.003 (.254±.076)	.015±.005 (.381±.127)	.020±.005 (.508±.127)	.025±.005 (.635±.127)
<b>(W) Width</b>	.010±.003 (.254±.076)	.015±.000,-.003 (.381±.000,-.076)	.020±.000,-.003 (.508±.000,-.076)	.025±.000,-.003 (.635±.000,-.076)
<b>(T) Thickness</b>	.006±.002 (.152±.051)			

	Dielectric Code	k Factor	Min Cap Tolerance	Cap Value (pF)		Cap Value (pF)		Cap Value (pF)		Cap Value (pF)	
				Min	Max	Min	Max	Min	Max	Min	Max
NP0	A	14	±0.1 pF	0.05	0.10	0.10	0.20	0.20	0.40	0.30	0.50
	A	35	±0.1 pF	0.10	0.30	0.20	0.50	0.50	0.90	0.80	1.40
	A	80	±0.1 pF	0.20	0.60	0.50	1.2	1.00	2.00	1.70	3.00
Temp Comp	4	205	±0.25 pF	0.60	1.70	1.30	3.00	2.60	5.20	4.40	8.00
	7	370	±0.25 pF	1.00	3.00	2.40	5.50	4.80	9.50	8.00	14.00
	Y	650	±0.25 pF	1.80	5.00	4.00	10.00	8.40	16.00	14.00	25.00
X7R	C	1200	±10%	3.40	10.00	7.70	18.00	15.00	31.00	25.00	47.00
	C	2200	±10%	7.00	18.00	14.00	33.00	28.00	56.00	48.00	86.00
	C	5000	±10%	15.00	40.00	32.00	74.00	65.00	130.00	110.00	200.00

DIMENSIONS: inches (millimeters)

	GH35	GH50	GH70	GH90
<b>(L) Length</b>	.035±.005 (.889±.127)	.050±.010 (1.27±.254)	.070±.010 (1.78±.254)	.090±.010 (2.29±.254)
<b>(W) Width</b>	.035±.005 (.889±.127)	.050±.010 (1.27±.254)	.070±.010 (1.78±.254)	.090±.010 (2.29±.254)
<b>(T) Thickness</b>	.006±.002 (.152±.051)		.007±.002 (.178±.051)	

	Dielectric Code	k Factor	Min Cap Tolerance	Cap Value (pF)		Cap Value (pF)		Cap Value (pF)		Cap Value (pF)	
				Min	Max	Min	Max	Min	Max	Min	Max
NP0	A	14	±0.1 pF	0.60	1.20	1.30	2.70	1.70	3.20	3.80	5.00
	A	35	±0.1 pF	1.60	3.00	3.30	6.80	4.30	8.00	9.50	13.00
	A	80	±0.1 pF	3.60	6.80	7.50	15.60	10.00	18.00	22.00	29.00
Temp Comp	4	205	±0.25 pF	9.40	18.00	19.00	40.00	25.00	46.00	56.00	73.00
	7	370	±0.25 pF	17.00	32.00	35.00	72.00	45.00	84.00	100.00	130.00
	Y	650	±0.25 pF	30.00	55.00	61.00	130.00	80.00	150.00	180.00	230.00
X7R	C	1200	±10%	55.00	100.00	110.00	230.00	150.00	270.00	330.00	430.00
	C	2200	±10%	100.00	190.00	200.00	430.00	270.00	500.00	600.00	780.00
	C	5000	±10%	230.00	430.00	470.00	980.00	620.00	1100.00	1400.00	1800.00

## GB SERIES: SINGLE LAYER CAPACITORS WITH BORDERS NP0, TEMPERATURE COMPENSATING & X7R DIELECTRICS

DIMENSIONS: inches (millimeters)

	GB15	GB20	GB25	GB30
<b>(L) Length</b>	.015±.002 (.381±.051)	.020±.002 (.508±.051)	.025±.002 (.635±.051)	.030±.002 (.762±.051)
<b>(W) Width</b>	.015±.002 (.381±.051)	.020±.002 (.508±.051)	.025±.002 (.635±.051)	.030±.002 (.762±.051)
<b>(T) Thickness</b>	.006±.002 (.152±.051)			
<b>(B) Border</b>	.002+.002,-.001 (.051+.051,-.025)			

	Dielectric Code	k Factor	Min Cap Tolerance	Cap Value (pF)		Cap Value (pF)		Cap Value (pF)		Cap Value (pF)	
				Min	Max	Min	Max	Min	Max	Min	Max
NP0	A	14	±0.1 pfd	0.10	0.15	0.16	0.27	0.30	0.40	0.40	0.60
	A	35	±0.1 pfd	0.20	0.40	0.40	0.70	0.60	1.00	1.00	1.50
	A	80	±0.1 pfd	0.50	1.00	0.94	1.50	1.50	2.40	2.10	3.50
Temp Comp	4	205	±0.25 pfd	1.30	2.20	2.40	4.00	3.80	6.20	5.50	9.00
	7	370	±0.25 pfd	2.40	4.00	4.30	7.00	7.00	11.00	10.00	16.00
	Y	650	±0.25 pfd	4.30	7.00	7.50	12.50	12.00	20.00	17.00	28.00
X7R	C	1200	±10%	8.00	13.00	14.00	23.00	22.00	36.00	31.00	53.00
	C	2200	±10%	14.00	24.00	26.00	42.00	40.00	67.00	58.00	97.00
	C	5000	±10%	33.00	54.00	59.00	97.00	92.00	150.00	133.00	220.00

DIMENSIONS: inches (millimeters)

	GB35	GB40	GB50
<b>(L) Length</b>	.035±.002 (.889±.051)	.040±.002 (1.02±.051)	.050±.002 (1.27±.051)
<b>(W) Width</b>	.035±.002 (.889±.051)	.040±.002 (1.02±.051)	.050±.002 (1.27±.051)
<b>(T) Thickness</b>	.006±.002 (.152±.051)		
<b>(B) Border</b>	.002+.002,-.001 (.051+.051,-.025)		

	Dielectric Code	k Factor	Min Cap Tolerance	Cap Value (pF)		Cap Value (pF)		Cap Value (pF)	
				Min	Max	Min	Max	Min	Max
NP0	A	14	±0.1 pfd	0.50	0.80	0.70	1.00	1.00	1.70
	A	35	±0.1 pfd	1.30	2.00	1.50	2.50	2.60	4.30
	A	80	±0.1 pfd	3.00	4.60	3.40	5.70	6.00	10.00
Temp Comp	4	205	±0.25 pfd	8.00	12.00	9.00	14.00	15.00	25.00
	7	370	±0.25 pfd	14.00	20.00	16.00	25.00	30.00	45.00
	Y	650	±0.25 pfd	25.00	37.00	30.00	45.00	50.00	80.00
X7R	C	1200	±10%	45.00	70.00	50.00	80.00	90.00	140.00
	C	2200	±10%	80.00	130.00	100.00	150.00	160.00	270.00
	C	5000	±10%	190.00	300.00	220.00	330.00	390.00	600.00

### HOW TO ORDER

<b>GH</b>	<b>35</b>	<b>5</b>	<b>A</b>	<b>6R8</b>	<b>K</b>	<b>A</b>	<b>6N</b>
Type Code	Case Code	Working Voltage Code	Dielectric Code	Capacitance Value	Capacitance Tolerance	Termination Code	Packaging Code
GH = No Borders GB = With Borders		5 = 50WVDC 1 = 100WVDC	A = NP0 4 = TC 7 = TC Y = TC C = X7R	EIA Cap Code in pF First two digits = significant figures or "R" for decimal place. Third digit = number of zeros or after "R" significant figures.	<10pF A = ±0.05pF (Special order) B = ±0.1pF C = ±0.25pF D = ±0.5pF >10pF J = ±5% K = ±10% M = ±20%	A = Au (100 μ-in min) over Ti/W (1000 Å nom) also available N = Ti/W-Ni-Au	6N = Antistatic Waffle Pack