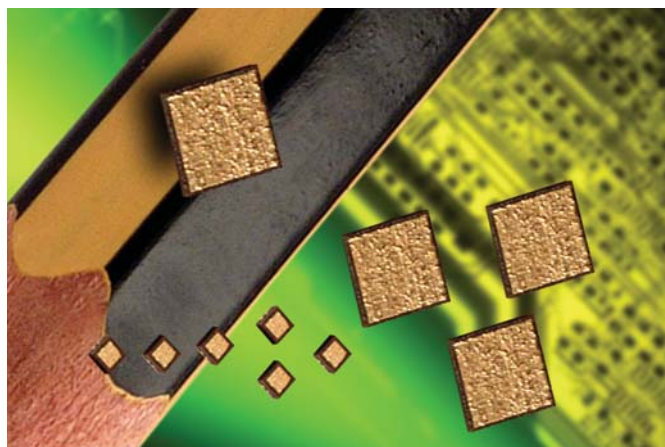


GENERAL INFORMATION

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 susceptibility to conductive epoxy electrode bridging.

Custom designs to meet stringent circuit trace width matching requirements are available upon request.



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

DIMENSIONS: inches (millimeters)

Case Code/Size		GH16			GH18			GH26			GH35		
Length & Width		.015±.003 (.381±.076)			.018±.003 (.457±.076)			.025±.005 (.635±.127)			.035±.005 (.889±.127)		
Thickness Min/Max		.0045/.012 (.114/.035)											
Dielectric	k	Cap (pF)			Cap (pF)			Cap (pF)			Cap (pF)		
		Min	Max	Tol*	Min	Max	Tol*	Min	Max	Tol*	Min	Max	Tol*
A	14	0.06	0.2	A	0.08	0.2	A	0.2	0.4	A	0.4	0.9	A
A	31	0.1	0.4	A	0.2	0.5	A	0.4	1	A	0.7	2	A
A	60	0.3	1	B	0.4	1.1	A	0.8	2	B	1.5	4.7	B
4	200	0.8	3	C	1.2	3.6	C	2.4	6.8	C	4.7	13	D
7	420	1.5	5.6	J	2.2	6.2	D	4.3	12	D	8.2	22	J
Y	650	2.7	10	K	4.3	11	D	7.5	22	J	15	43	J
C	1100	3.3	15	K	6.8	18	J	13	36	J	27	75	J
C	2000	6.2	29	K	13	36	J	24	68	J	47	130	J
C	4200	13	60	K	30	75	J	56	150	J	110	300	J

DIMENSIONS: inches (millimeters)

Case Code/Size		GH50			GH70			GH90		
Length & Width		.050±.010 (1.27±.254)			.070±.010 (1.78±.254)			.090±.010 (2.29±.254)		
Thickness Min/Max		.0045/.012 (.114/.035)								
Dielectric	k	Cap (pF)			Cap (pF)			Cap (pF)		
		Min	Max	Tol*	Min	Max	Tol*	Min	Max	Tol
A	14	0.6	2	A	1.3	3.9	A	2.2	5.6	A
A	31	1.5	4.7	B	3	8.2	B	5.1	13	C
A	60	2.7	9.1	C	6.2	16	D	10	27	G
4	200	8.2	30	G	20	56	G	33	82	G
7	420	15	51	G	33	91	G	56	150	G
Y	650	27	100	G	62	180	G	110	270	G
C	1100	47	160	J	100	300	J	180	470	J
C	2000	82	300	J	220	560	J	330	820	J
C	4200	180	680	J	430	1200	J	750	1800	J

Note: Tol* - Letter indicates tightest available

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

DIMENSIONS: inches (millimeters)

Case Code/Size		GB15			GB20			GB25			GB30		
Length & Width		.015±.002 (.381±.051)			.020±.002 (.508±.051)			.025±.002 (.635±.051)			.030±.002 (.762±.051)		
Thickness Min/Max		.0045/.012 (.114/.035)											
(B) Border		.002+.002,-.001 (.051+.051,-.025)											
Dielectric	k	Cap (pF)			Cap (pF)			Cap (pF)			Cap (pF)		
		Min	Max	Tol*	Min	Max	Tol*	Min	Max	Tol*	Min	Max	Tol*
A	14	0.06	0.1	A	0.1	0.2	A	0.2	0.3	A	0.3	0.4	A
A	31	0.1	0.2	A	0.3	0.4	B	0.4	0.7	B	0.6	1	B
A	60	0.3	0.4	B	0.5	0.8	C	0.8	1.3	C	1.2	2	C
4	200	0.9	1.3	D	1.5	2.7	D	2.7	4.7	M	3.9	6.8	K
7	420	1.5	2.4	D	2.7	4.7	M	4.7	8.2	M	6.8	12	K
Y	650	2.7	4.7	M	4.7	9.1	M	8.2	15	M	12	22	K
C	1100	4.7	7.5	M	8.2	15	M	15	24	M	22	36	K
C	2000	9.1	13	M	16	27	M	27	47	M	39	68	K
C	4200	20	33	M	36	62	M	56	100	M	91	150	K

DIMENSIONS: inches (millimeters)

Case Code/Size		GB35			GB40			GB50		
Length & Width		.035±.002 (.899±.051)			.040±.002 (1.016±.051)			.050±.002 (1.270±.051)		
Thickness Min/Max		.0045/.012 (.114/.035)								
(B) Border		.002+.002,-.001 (.051+.051,-.025)								
Dielectric	k	Cap (pF)			Cap (pF)			Cap (pF)		
		Min	Max	Tol*	Min	Max	Tol*	Min	Max	Tol
A	14	0.4	0.6	A	0.5	0.9	B	0.8	1.3	B
A	31	0.8	1.5	C	1.1	2	C	1.8	3	C
A	60	1.6	3	C	2.2	3.9	C	3.6	6.2	D
4	200	5.1	9.1	K	6.8	13	K	11	20	K
7	420	9.1	16	K	12	22	K	20	36	K
Y	650	18	30	K	22	39	K	36	62	K
C	1100	30	51	K	39	68	K	62	110	K
C	2000	51	91	K	68	120	K	110	200	K
C	4200	120	200	K	160	270	K	270	430	K

Note: Tol* - Letter indicates tightest available

HOW TO ORDER

GH
Type Code
GH = w/o borders
GB = w/ borders

16
Case Code

5
Working Voltage
5 = 50WVDC
1 = 100WVDC

A
Dielectric Code
A = NP0
4 = TC
7 = TC
Y = TC
C = X7R

6R8
Capacitance Value
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.

K
Capacitance Tolerance
A = ±0.05pF
B = ±0.1pF
C = ±0.25pF
D = ±0.5pF
J = ±5%
K = ±10%
M = ±20%

N
Termination Code
N = Ti/W-Ni-Au
Au (100µ-in min)
over
Ni (1500Å nom)
over
Ti/W (500Å nom)

6N
Packaging Code
6N = Antistatic Waffle Pack

Mouser Electronics

Authorized Distributor

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

[AVX:](#)

[GH205A1R5BA6N](#) [GH265A1R5BN6N](#)