

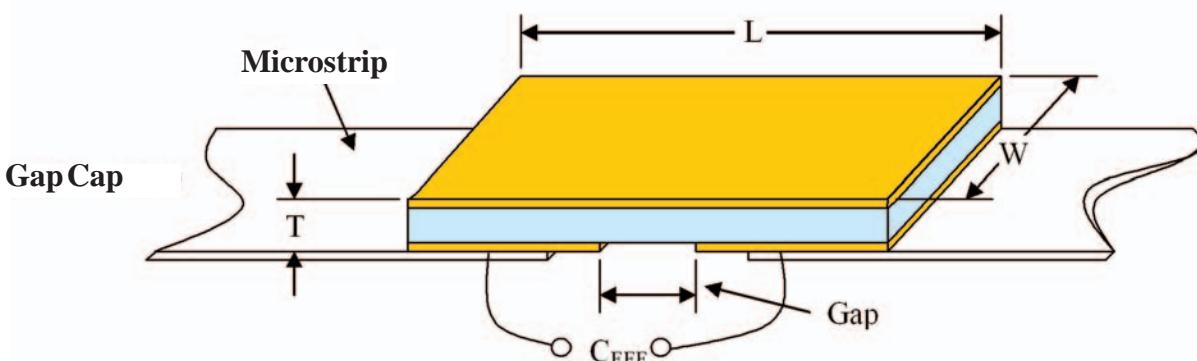
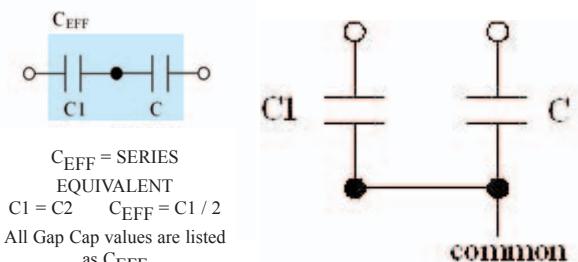
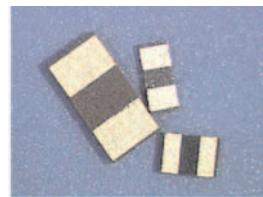
Functional Applications:

- DC Blocking
- RF Bypassing
- Elimination of wirebond

Benefits:

- Consistent performance
- Coplanar waveguide
- Gap Cap configuration eliminates wirebonding

Gap Caps are designed for DC Blocking and RF Bypassing. The low insertion loss and high resonant frequencies make it an ideal device for this type of application. This product's unique configuration eliminates the need for wirebonding, therefore reducing performance variations.

**25 Volt Gap Cap Dimensions**

Style	Standard Capacitance Range		G Gap (Nom.)		W Width		L Length (Maximum)		T Thickness		
	pF	Inches	mm	Inches	mm	Inches	mm	Inches (±.001)	mm (± .025)		
G10	.01 – 70	.005	.127	.010 + .000 -.003	.254 + .000 -.076	.030	.762	.004	.102		
G15	.02 – 130	.008	.203	.015 + .000 -.003	.381 + .000 -.076	.040	1.016				
G20	.03 – 200	.010	.254	.020 + .000 -.003	.508 + .000 -.076	.050	1.270				
G25	.03 – 300	.020	.508	.025 + .000 -.003	.635 + .000 -.076	.060	1.524				
G30	.04 – 360			.030 + .000 -.003	.762 + .000 -.076						
G35	.04 – 400			.035 ± .005	.889 ± .127						

UX thickness only available in .005", .010" and .015"

for Microwave Applications

50 Volt Gap Cap Dimensions

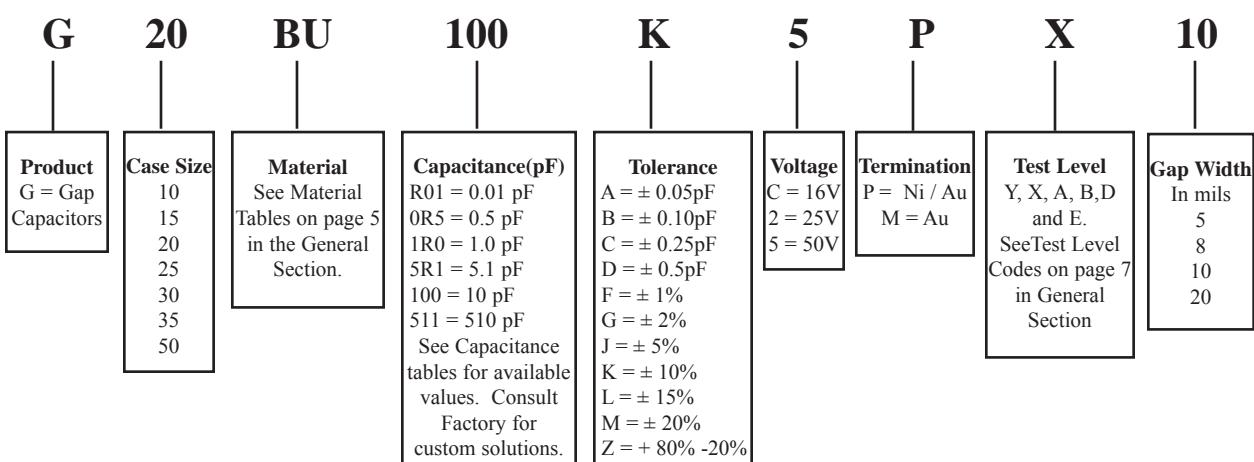
Style	Standard Capacitance Range	G Gap (Nom.)		W Width		L Length (Maximum)		T Thickness			
	pF	Inches	mm	Inches	mm	Inches	mm	Inches (±.001)	mm (± .025)		
G10	.01 – 36	.005	.127	.010 + .000 - .003	.254 + .000 - .076	.030	.762	.006	.152		
G15	.02 – 68		.203	.015 + .000 - .003	.381 + .000 - .076	.040	1.016				
G20	.02 – 110		.254	.020 + .000 - .003	.508 + .000 - .076	.050	1.270				
G25	.03 – 200		.020	.025 + .000 - .003	.635 + .000 - .076	.080	2.032				
G30	.03 – 240			.030 + .000 - .003	.762 + .000 - .076						
G35	.04 – 300			.035 ± .005	.889 ± .127						
G50	.04 – 510			.050 ± .010	1.270 ± .254						

Gap Cap Designer Kits 160 Capacitors, 10 Each of 16 Values

Part Number	Capacitor Width	10 Capacitors of each value									
		Dielectric	pF	Tol.	pF	Tol.	pF	Tol.	pF	Tol.	
G10XXXKITA5PX05	.010"	Class I, see codes on pg.5	.05 .1	A A	.2 .3	A A	.4 .5	A B	.6 .8	C C	
		Class II, see codes on pg.5	1.0 1.5	C C	2.2 4.7	D M	5.6 8.2	M M	10 15	M M	
G15XXXKITA5PX08 G20XXXKITA5PX10	.015" .020"	Class I, see codes on pg.5	.08 .2	A A	.4 .5	A B	.6 1.0	B C	1.5 2.2	D D	
		Class II, see codes on pg.5	3.3 4.7	D M	5.6 6.8	M M	8.2 10	M M	15 20	M M	
G25XXXKITA5PX10	.025"	Class I, see codes on pg. 5	.4 .5	A B	.6 1.0	B C	1.5 2.2	C D	3.3 4.7	D D	
		Class II, see codes on pg. 5	5.6 6.8	M M	8.2 10	M M	15 20	M M	33 51	M M	

DLI reserves the right to substitute values as required.

Part Number Identification



25 Volt Gap Cap

Capacitance Range vs. Case Size by Dielectric Material

Style	Std. Gap ⁺		Class I Materials														
			LA	PI	PG	AH	CF	NA	CD	NG	CG	DB	NP	NR	NS	NU	NV
G10	0.005"	Min	0.01	0.02	0.02	0.04	0.04	0.04	0.06	0.07	0.15	0.15	0.15	0.25	0.50	0.95	1.4
		Max	0.02	0.03	0.05	0.08	0.09	0.08	0.10	0.15	0.25	0.25	0.30	0.60	1.2	2.4	3.6
G15	0.008"	Min	0.02	0.03	0.04	0.06	0.08	0.07	0.15	0.15	0.25	0.25	0.30	0.50	0.90	1.8	2.7
		Max	0.04	0.07	0.10	0.15	0.15	0.15	0.25	0.30	0.50	0.55	0.65	1.2	2.2	4.3	6.8
G20	0.010"	Min	0.03	0.04	0.05	0.08	0.10	0.09	0.15	0.20	0.30	0.30	0.35	0.65	1.2	2.4	3.6
		Max	0.07	0.10	0.15	0.25	0.30	0.25	0.45	0.55	0.90	0.90	1.1	2.0	3.9	7.5	11
G25	0.020"	Min	0.03	0.05	0.07	0.10	0.15	0.15	0.20	0.20	0.35	0.35	0.40	0.75	1.4	3.0	4.3
		Max	0.09	0.15	0.20	0.30	0.35	0.35	0.60	0.65	1.1	1.1	1.3	2.4	4.7	9.1	13
G30	0.020"	Min	0.04	0.06	0.08	0.15	0.15	0.15	0.25	0.30	0.45	0.45	0.55	0.95	1.8	3.6	5.6
		Max	0.10	0.15	0.25	0.35	0.45	0.40	0.70	0.80	1.3	1.4	1.6	3.0	5.6	11	16
G35	0.020"	Min	0.04	0.07	0.09	0.15	0.20	0.15	0.30	0.30	0.50	0.50	0.60	1.1	2.2	4.3	6.2
		Max	0.10	0.20	0.25	0.45	0.50	0.50	0.80	0.95	1.6	1.6	1.9	3.6	6.8	13	20

Style	Std. Gap ⁺		Class II Dielectric Materials											
			BF	BD	BG	BC	BE	BL	BJ	BN	BT	BU	BV	UX*
G10	0.005"	Min	0.70	1.1	1.4	2.0	2.0	3.3	5.1	7.5	7.5	15	22	
		Max	1.7	2.7	3.6	5.1	4.7	7.5	13	18	18	33	51	70
G15	0.008"	Min	1.4	2.2	2.7	3.9	3.9	6.2	10	15	15	27	43	70
		Max	3.3	5.1	6.8	10	9.1	15	24	33	33	62	100	130
G20	0.010"	Min	1.7	2.7	3.6	5.1	5.1	8.2	13	18	18	33	51	90
		Max	5.6	9.1	11	16	16	24	43	56	56	110	160	200
G25	0.020"	Min	2.2	3.3	4.3	6.2	6.2	10	16	22	22	43	68	120
		Max	6.8	11	13	20	20	30	51	68	68	130	200	300
G30	0.020"	Min	2.7	4.3	5.6	8.2	7.5	12	20	27	27	51	82	150
		Max	8.2	13	16	24	24	39	62	82	82	160	240	360
G35	0.020"	Min	3.3	5.1	6.2	9.1	9.1	15	24	33	33	62	100	160
		Max	10	16	20	27	27	43	75	100	100	180	300	400

* UX capacitors are 16 volt rated

+Normal gap widths are 0.005", 0.008", 0.010", and 0.020". Not all widths are available on all configurations. Please consult factory for further details.

Table of Standard Values

0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.1
0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55
0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	1
1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9
2	2.2	2.4	2.7	3	3.3	3.6	3.9	4.3
4.7	5.1	5.6	6.2	6.8	7.5	8.2	9.1	10
11	12	13	15	16	18	20	22	24
27	30	33	36	39	43	47	51	56
62	68	75	82	91	100	110	120	130
150	160	180	200	220	240	270	300	330
360	390	400						

50 Volt Gap Cap

Capacitance Range vs. Case Size by Dielectric Material																		
Style	Std. Gap*		Class I Dielectric Materials															
			LA	PI	PG	AH	CF	NA	CD	NG	CG	DB	NP	NR	NS	NU	NV	
G10	0.005"	Min	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.05	0.08	0.08	0.09	0.20	0.35	0.65	0.95	
		Max	0.01	0.02	0.03	0.05	0.06	0.05	0.09	0.10	0.15	0.15	0.20	0.40	0.80	1.6	2.4	
G15	0.008"	Min	0.02	0.03	0.03	0.05	0.06	0.05	0.08	0.10	0.15	0.20	0.20	0.20	0.35	0.65	1.3	2.0
		Max	0.02	0.05	0.06	0.10	0.10	0.10	0.15	0.20	0.35	0.35	0.40	0.80	1.5	3.0	4.7	
G20	0.010"	Min	0.02	0.03	0.04	0.06	0.07	0.07	0.15	0.15	0.20	0.25	0.25	0.45	0.85	1.7	2.7	
		Max	0.04	0.08	0.10	0.15	0.20	0.15	0.30	0.35	0.60	0.60	0.70	1.3	2.4	5.1	7.5	
G25	0.020"	Min	0.03	0.04	0.05	0.08	0.09	0.08	0.15	0.20	0.30	0.30	0.35	0.60	1.1	2.2	3.3	
		Max	0.09	0.15	0.20	0.30	0.35	0.35	0.55	0.65	1.1	1.1	1.3	2.4	4.7	9.1	13	
G30	0.020"	Min	0.03	0.05	0.07	0.10	0.15	0.15	0.20	0.20	0.35	0.35	0.40	0.75	1.4	3.0	4.3	
		Max	0.10	0.15	0.25	0.35	0.45	0.40	0.70	0.80	1.3	1.3	1.6	3.0	5.6	11	16	
G35	0.020"	Min	0.04	0.06	0.07	0.15	0.15	0.15	0.20	0.25	0.40	0.40	0.50	0.90	1.6	3.3	5.1	
		Max	0.10	0.20	0.25	0.45	0.5	0.45	0.80	0.95	1.5	1.6	1.9	3.6	6.2	13	20	
G50	0.020"	Min	0.04	0.07	0.09	0.15	0.20	0.20	0.30	0.30	0.50	0.50	0.60	1.2	2.2	4.3	6.2	
		Max	0.20	0.35	0.50	0.75	0.90	0.85	1.4	1.6	2.7	2.7	3.3	6.2	11	22	33	



Style	Std. Gap*		Class II Dielectric Materials											
			BF	BD	BG	BC	BE	BL	BJ	BN	BT	BU	BV	
G10	0.005"	Min	0.50	0.75	0.95	1.4	1.4	2.2	3.6	5.1	5.1	9.1	15	
		Max	1.1	1.8	2.4	3.3	3.3	5.1	8.2	12	12	22	36	
G15	0.008"	Min	0.95	1.5	2.0	3.0	2.7	4.3	7.5	10	10	20	30	
		Max	2.2	3.6	4.7	6.8	6.2	10	16	22	22	43	68	
G20	0.010"	Min	1.3	2.0	2.7	3.9	3.6	6.2	10	13	13	24	39	
		Max	3.6	5.6	7.5	11	10	16	27	39	39	68	110	
G25	0.020"	Min	1.7	2.7	3.3	4.7	4.7	7.5	12	18	18	33	51	
		Max	6.8	11	13	20	20	30	51	68	68	130	200	
G30	0.020"	Min	2.2	3.3	4.3	6.2	6.2	10	16	22	22	43	68	
		Max	8.2	13	16	24	24	36	62	82	82	160	240	
G35	0.020"	Min	2.4	3.9	5.1	7.5	6.8	11	18	24	24	47	75	
		Max	10	15	20	27	27	43	68	100	100	180	300	
G50	0.020"	Min	3.3	5.1	6.2	9.1	9.1	15	24	33	33	62	100	
		Max	16	27	33	51	47	75	120	160	160	330	510	

*Normal Gap widths are 0.005", 0.008", 0.010", and 0.020". Not all widths are available on all configurations. Please consult factory for further details.