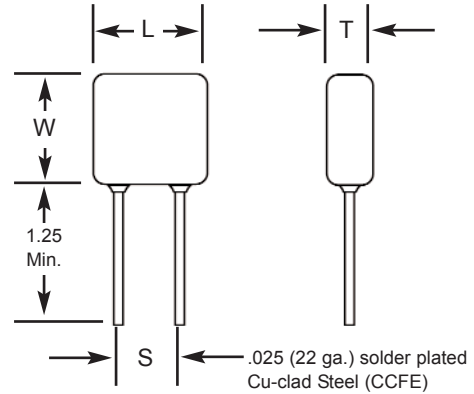


FEATURES

1. Conforms to MIL-PRF-49467. (Group A Screening, Subgroup 1)
2. 100% Corona tested.
3. No IR degradation over life.
4. High density, low DF ceramic.
5. Conservative and proven design is recommended for non-repairable applications such as spacecraft.
6. CSAM inspection is available and is recommended for space applications.
7. Burn-in in a non-contaminating inert fluid is standard for $\geq 2\text{KV}$; optional for 500V or 1 KV parts.

CAPACITOR OUTLINE DRAWING



DIMENSIONS

Style	Sizes in Inches (mm) max.			Lead Spacing ± 0.030 (S)
	Length (L)	Width (W)	Thickness (T)	
HS20	.250 (6.35)	.220 (5.59)	.200 (5.08)	.170 (4.32)
HS21	.320 (8.13)	.280 (7.11)	.250 (6.35)	.220 (5.59)
HS22	.370 (9.40)	.300 (7.62)	.250 (6.35)	.275 (6.98)
HS30	.450 (11.43)	.220 (5.59)	.200 (5.08)	.300 (7.62)
HS23	.470 (11.94)	.400 (10.16)	.270 (6.89)	.375 (9.52)
HS31	.550 (13.97)	.280 (7.11)	.250 (6.35)	.400 (10.16)
HS24	.570 (14.48)	.500 (12.70)	.270 (6.89)	.475 (12.06)
HS25	.670 (17.02)	.600 (15.24)	.270 (6.89)	.575 (14.60)
HS26	.770 (19.56)	.720 (18.29)	.270 (6.89)	.675 (17.14)
HS33	.850 (21.59)	.400 (10.16)	.270 (6.89)	.700 (17.78)
HS34	1.050 (26.67)	.500 (12.70)	.270 (6.89)	.975 (24.76)
HS35	1.250 (31.75)	.600 (15.24)	.270 (6.89)	1.175 (29.84)
HS36	1.450 (36.83)	.720 (18.29)	.270 (6.89)	1.375 (34.92)

PART NUMBER AND ORDERING INFORMATION

VOLTAGE 10 **HS24** **B** 103 **K** **C** **F** **INERT LIQUID (BURN-IN)**
 05 = 500V 40 = 4000V
 10 = 1000V 50 = 5000V
 20 = 2000V 75 = 7500V
 30 = 3000V 100 = 10,000V
 Std. for $\geq 2\text{kV}$;
 Add "F" if required
 for 500V or 1kV parts

STYLE _____
 HS24, etc.

DIELECTRIC _____
 B = X7R
 N = BP C0G (NP0)

CAPACITANCE VALUE _____
 First two digits are significant,
 last digit is number of zeros,
 i.e., 103=10000pF

C=CSAM

TOLERANCE
 J = $\pm 5\%$
 K = $\pm 10\%$
 M = $\pm 20\%$
 P = 0/+100%
 Z = -20%/+80%

MARKING	
(HS20, HV21)	(All Other Sizes)
103K	HS24B103K
1 kV	1 kV
KEC	KEC
Date Code	Date Code

High Voltage Space Quality MLC (-55° to +125°C) HS Series

COG DIELECTRIC

STYLE		HS 20			HS 21			HS 22			HS 23				HS 24					HS 25					HS 26								
Cap	L MAX	.250 (6.35)			.320 (8.13)			.370 (9.40)			.470 (11.94)				.570 (14.48)					.670 (17.02)					.770 (19.56)								
	W MAX	.220 (5.59)			.280 (7.11)			.300 (7.62)			.400 (10.16)				.500 (12.70)					.600 (15.24)					.720 (18.29)								
	T MAX	.200 (5.08)			.250 (6.35)			.250 (6.35)			.270 (6.86)				.270 (6.86)					.270 (6.86)					.270 (6.86)								
S± .030		.170 (4.32)			.220 (5.59)			.275 (6.98)			.375 (9.52)				.475 (12.06)					.575 (14.60)					.675 (17.14)								
Lead Dia. +0.004/-0.002		.025 (.635)			.025 (.635)			.025 (.635)			.025 (.635)				.025 (.635)					.025 (.635)					.025 (.635)								
		WVDC			WVDC			WVDC			WVDC				WVDC					WVDC					WVDC								
Cap Code		500	1k	2k	500	1k	2k	500	1k	2k	500	1k	2k	3k	500	1k	2k	3k	4k	5k	500	1k	2k	3k	4k	5k	500	1k	2k	3k	4k	5k	
12pF	120																																
15	150																																
18	180																																
22	220																																
27	270																																
33	330																																
39	390																																
47	470																																
56	560																																
68	680																																
82	820																																
100	101																																
120	121																																
150	151																																
180	181																																
220	221																																
270	271																																
330	331																																
390	391																																
470	471																																
560	561																																
680	681																																
820	821																																
1000	102																																
1200	122																																
1500	152																																
1800	182																																
2200	222																																
2700	272																																
3300	332																																
3900	392																																
4700	472																																
5600	562																																
6800	682																																
8200	822																																
0.010uF	103																																
0.012	123																																
0.015	153																																
0.018	183																																
0.022	223																																
0.027	273																																
0.033	333																																
0.039	393																																
0.047	473																																
0.056	563																																
0.068	683																																
0.082	823																																
0.10	104																																
0.12	124																																
0.15	154																																

C0G DIELECTRIC

STYLE		HS 30					HS 31					HS 33					HS 34							HS 35										HS 36									
Cap	L MAX	.450 (11.43)					.550 (13.97)					.850 (21.59)					1.050 (26.67)							1.250 (31.75)										1.450 (36.83)									
	W MAX	.220 (5.59)					.280 (7.11)					.400 (10.16)					.500 (12.70)							.600 (15.24)										.720 (18.29)									
	T MAX	.200 (5.08)					.250 (6.35)					.270 (6.89)					.270 (6.89)							.270 (6.89)										.270 (6.89)									
	S± .030	.300 (7.62)					.400 (10.16)					.700 (17.78)					.975 (24.76)							1.175 (29.84)										1.375 (34.92)									
	Lead Dia. +0.004/-0.002	.025 (.635)					.025 (.635)					.025 (.635)					.025 (.635)							.025 (.635)										.025 (.635)									
		WVDC					WVDC					WVDC					WVDC							WVDC										WVDC									
Cap Code		500	1k	2k	3k	500	1k	2k	3k	4k	5k	500	1k	2k	3k	4k	5k	500	1k	2k	3k	4k	5k	7.5k	500	1k	2k	3k	4k	5k	7.5k	10k	500	1k	2k	3k	4k	5k	7.5k	10k			
10pF	100																																										
12	120																																										
15	150																																										
18	180																																										
22	220																																										
27	270																																										
33	330																																										
39	390																																										
47	470																																										
56	560																																										
68	680																																										
82	820																																										
100	101																																										
120	121																																										
150	151																																										
180	181																																										
220	221																																										
270	271																																										
330	331																																										
390	391																																										
470	471																																										
560	561																																										
680	681																																										
820	821																																										
1000	102																																										
1200	122																																										
1500	152																																										
1800	182																																										
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2700	272																																										
3300	332																																										
3900	392																																										
4700	472																																										
5600	562																																										
6800	682																																										
8200	822																																										
0.010uF	103																																										
0.012	123																																										
0.015	153																																										
0.018	183																																										
0.022	223																																										
0.027	273																																										
0.033	333																																										
0.039	393																																										
0.047	473																																										
0.056	563																																										
0.068	683																																										
0.082	823																																										
0.10	104																																										
0.12	124																																										
0.15	154																																										
0.18	184																																										

High Voltage Space Quality MLC (-55° to +125°C) HS Series

X7R DIELECTRIC

STYLE		HS 20			HS 21			HS 22			HS 23				HS 24					HS 25					HS 26						
Cap	L MAX	.250 (6.35)			.320 (8.13)			.370 (9.40)			.470 (11.94)				.570 (14.48)					.670 (17.02)					.770 (19.56)						
	W MAX	.220 (5.59)			.280 (7.11)			.300 (7.62)			.400 (10.16)				.500 (12.70)					.600 (15.24)					.720 (18.29)						
	T MAX	.200 (5.08)			.250 (6.35)			.250 (6.35)			.270 (6.86)				.270 (6.86)					.270 (6.86)					.270 (6.86)						
S± .030		.170 (4.32)			.220 (5.59)			.275 (6.98)			.375 (9.52)				.475 (12.06)					.575 (14.60)					.675 (17.14)						
Lead Dia. +0.004/-0.002		.025 (.635)			.025 (.635)			.025 (.635)			.025 (.635)				.025 (.635)					.025 (.635)					.025 (.635)						
		WVDC			WVDC			WVDC			WVDC				WVDC					WVDC					WVDC						
Cap Code		500	1k	2k	500	1k	2k	500	1k	2k	500	1k	2k	3k	500	1k	2k	3k	4k	500	1k	2k	3k	4k	5k	500	1k	2k	3k	4k	5k
270pF	271																														
330	331																														
390	391																														
470	471																														
560	561																														
680	681																														
820	821																														
1000	102																														
1200	122																														
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2200	222																														
2700	272																														
3300	332																														
3900	392																														
4700	472																														
5600	562																														
6800	682																														
8200	822																														
0.010uF	103																														
0.012	123																														
0.015	153																														
0.018	183																														
0.022	223																														
0.027	273																														
0.033	333																														
0.039	393																														
0.047	473																														
0.056	563																														
0.068	683																														
0.082	823																														
0.10	104																														
0.12	124																														
0.15	154																														
0.18	184																														
0.22	224																														
0.27	274																														
0.33	334																														
0.39	394																														
0.47	474																														
0.56	564																														
0.68	684																														
0.82	824																														
1.0	105																														
1.2	125																														
1.5	155																														
1.8	185																														
2.2	225																														
2.7	275																														

