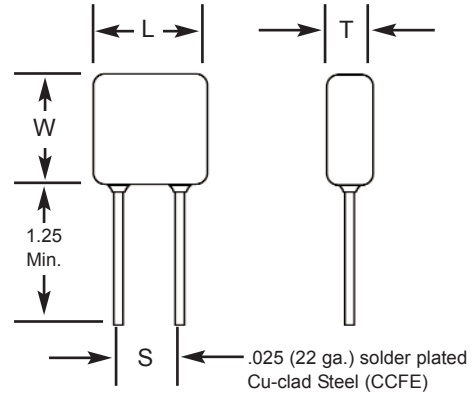


**FEATURES**

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 $\pm 0.030$ (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**

05 = 500V      40 = 4000V  
 10 = 1000V    50 = 5000V  
 20 = 2000V    75 = 7500V  
 30 = 3000V    100 = 10,000V

**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

**INERT LIQUID (BURN-IN)**  
 Std. for  $\geq 2\text{kV}$ ;  
 Add "F" if required for 500V or 1kV parts

**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																																



# 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																															
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																															
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																															

