

LOW PROFILE 'S' LEAD CAPACITORS

LOW PROFILE · LOW STANDOFF

APPLICATIONS:

- Industrial
- Military
- Space

FEATURES:

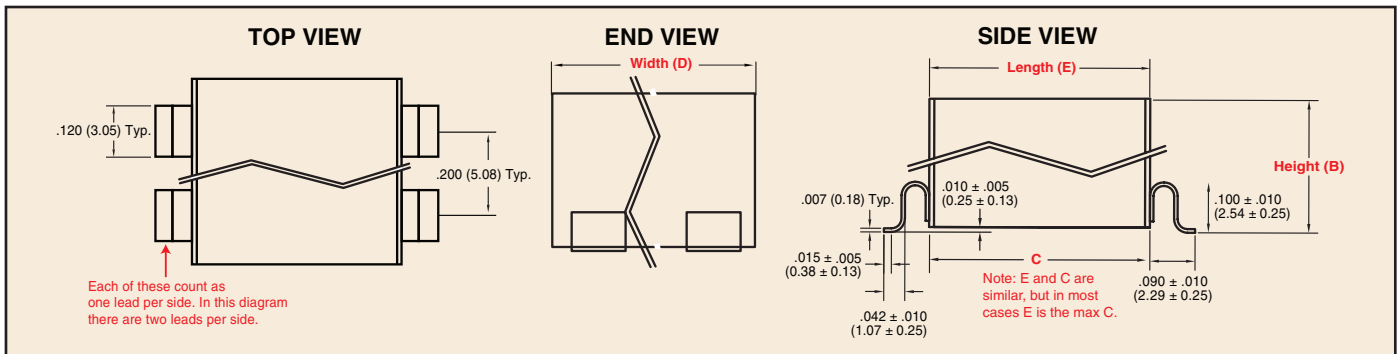
- Lowest center of gravity
- Excellent thermal coefficient of expansion compliance with board
- Can be screened similar to MIL-PRF-49470
- Available in most chip sizes



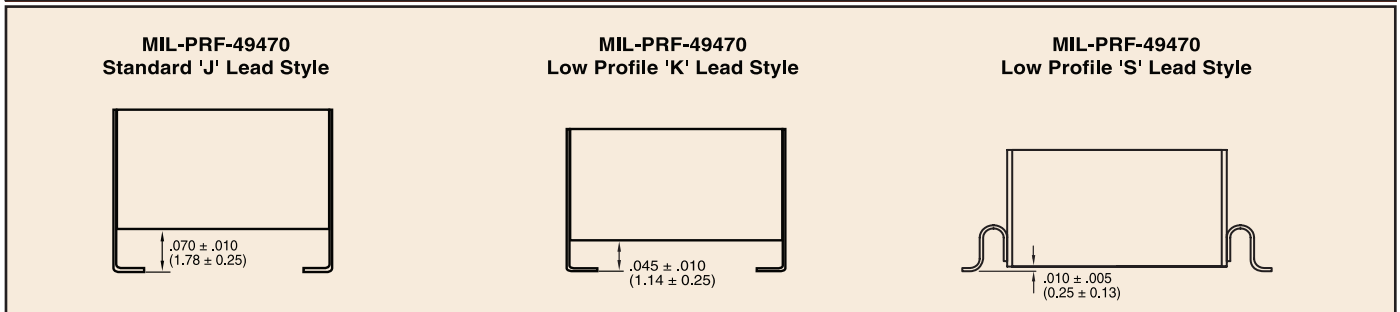
CERAMIC TYPE:

- NPO, NPQ, N2T, BX or X7R

TOP VIEW – END VIEW – SIDE VIEW



LOW STANDOFF COMPARISON



HOW TO ORDER OUR LOW PROFILE 'S' LEAD CAPACITORS

HR	S	3	01	X7R	605	K	2	S	1
Optional Screening Code	Configuration	No. of Chips	Case Code	Dielectric Type	Capacitance Code	Capacitance Tolerance *	Voltage Code	Lead Frame Style	No. of Leads
Leave Blank for Commercial HR SR (See pg. 7)	Stacked Capacitor Assembly	Number of Chips per Stack	Available in Many Sizes	X7R BX BR BQ NPO NPQ	Capacitance (in picofarads): Two significant figures followed by the number of zeros. Examples: 103=10,000 pF=.01 μF 605=6,000,000 pF=6 μF	J = ± 5% K = ± 10% M = ± 20% Z = -20% / +80%	1 = 25V 2 = 50V 3 = 100V 4 = 200V 6 = 500V	'S' Leads	Number of Leads per Side

NOTE: Other sizes, capacitances, lead frames, dielectrics (BP, BX, BR, BQ), and voltage ratings are available. Consult factory.

* Unless otherwise specified. Customer SCD takes precedence.



LOW PROFILE 'S' LEAD CAPACITORS MAXIMUM CAPACITANCE

MIL-PRF-49470 STYLE CASE SIZES								
49470 Case Size	Style 5		Style 4		Style 3		Height B inches (mm)	No. of Chips per Stack
Presidio Case Size	01		05		13			
Dielectric	BX/BR/BQ (μF)	BP (μF)	BX/BR/BQ (μF)	BP (μF)	BX/BR/BQ (μF)	BP (μF)		
50V (BX, BP)	1.2	.056	3.0	.12	10	.39	.135 (3.43)	1
	2.2	.10	6.0	.27	18	.82	.255 (6.48)	2
	3.3	.15	8.2	.33	33	1.2	.375 (9.53)	3
	—	—	12	.47	39	1.8	.495 (12.57)	4
	—	—	15	.56	47	2.2	.665 (16.89)	5
100V (BX, BP)	0.68	.039	1.5	.10	5.6	.3	.135 (3.43)	1
	1.2	.082	2.7	.22	12	.68	.255 (6.48)	2
	1.8	.12	4.7	.27	18	1.0	.375 (9.53)	3
	—	—	6.8	.39	22	1.5	.495 (12.57)	4
	—	—	8.2	.56	27	1.8	.665 (16.89)	5
200V (BR, BP)	0.27	.022	0.68	.068	2.7	.18	.135 (3.43)	1
	0.56	.039	1.5	.10	5.6	.39	.255 (6.48)	2
	0.82	.056	2.2	.15	8.2	.56	.375 (9.53)	3
	—	—	3.3	.22	10	.68	.495 (12.57)	4
	—	—	3.9	.27	12	1.0	.665 (16.89)	5
500V (BQ, BP)	0.15	.010	.39	.022	1.0	.082	.135 (3.43)	1
	0.27	.018	.68	.039	2.2	.18	.255 (6.48)	2
	0.47	.027	1.2	.068	3.9	.27	.375 (9.53)	3
	—	—	1.5	.10	4.7	.33	.495 (12.57)	4
	—	—	1.8	.12	5.6	.39	.665 (16.89)	5
C ± .025 in. (± .64 mm)	.250 (6.35)		.400 (10.16)		.450 (11.43)		Height dimensions based on commonly ordered parts. Optimized heights available.	
D Max. in. (mm)	.275 (6.99)		.425 (10.80)		1.075 (27.31)			
E Max. in. (mm)	.300 (7.62)		.440 (11.18)		.500 (12.70)			
# of 'S' Leads per Side	1		2		5			

PRESIDIO CASE SIZES — X7R AND NPO DIELECTRIC								
Presidio Case Size	01		05		13		Height inches (mm)	No. of Chips per Stack
Chip Size	2627		3941		4399			
Dielectric	X7R (μF)	NPO (μF)	X7R (μF)	NPO (μF)	X7R (μF)	NPO (μF)		
25V (Voltage Code = 1)	2.5	0.065	7.0	0.16	20.0	0.5	.110 (2.79)	1
	5.0	0.13	14.0	0.32	40.0	1.0	.160 (4.06)	2
	7.5	0.19	21.0	0.48	60.0	1.5	.235 (5.97)	3
	10.0	0.26	28.0	0.64	80.0	2.0	.310 (7.87)	4
	—	—	35.0	0.80	100.0	2.5	.385 (9.78)	5
	—	—	42.0	0.96	120.0	3.0	.460 (11.68)	6
50V (Voltage Code = 2)	2.1	0.055	5.6	0.14	18.0	0.4	.110 (2.79)	1
	4.2	0.11	11.0	0.28	36.0	0.8	.180 (4.57)	2
	6.3	0.16	17.0	0.42	54.0	1.2	.270 (6.86)	3
	8.4	0.22	22.0	0.56	72.0	1.6	.360 (9.14)	4
	—	—	28.0	0.70	90.0	2.0	.450 (11.43)	5
	—	—	33.0	0.84	110.0	2.4	.540 (13.72)	6
100V (Voltage Code = 3)	1.4	0.04	4.0	0.1	12.0	0.3	.120 (3.05)	1
	2.8	0.08	8.0	0.2	24.0	0.6	.240 (6.10)	2
	4.2	0.12	12.0	0.3	36.0	0.9	.360 (9.14)	3
	—	—	16.0	0.4	48.0	1.2	.480 (12.19)	4
	—	—	20.0	0.5	60.0	1.5	.600 (15.24)	5
	—	—	—	—	72.0	1.8	.720 (18.29)	6
200V (Voltage Code = 4)	0.42	0.022	1.2	0.056	3.5	0.18	.120 (3.05)	1
	0.84	0.044	2.4	0.11	7.0	0.36	.240 (6.10)	2
	1.20	0.066	3.6	0.17	10.0	0.54	.360 (9.14)	3
	—	—	4.8	0.22	14.0	0.72	.480 (12.19)	4
	—	—	6.0	0.28	17.0	0.90	.600 (15.24)	5
	—	—	—	—	21.0	1.10	.720 (18.29)	6
500V (Voltage Code = 6)	0.19	0.011	0.55	0.028	1.6	0.08	.120 (3.05)	1
	0.38	0.022	1.10	0.056	3.2	0.16	.240 (6.10)	2
	0.57	0.033	1.60	0.084	4.8	0.24	.360 (9.14)	3
	—	—	2.20	0.110	6.4	0.32	.480 (12.19)	4
	—	—	2.70	0.140	8.0	0.40	.600 (15.24)	5
	—	—	—	—	9.6	0.48	.720 (18.29)	6
C ±.025 in. (± .64 mm)	.275 (6.99)		.400 (10.16)		.450 (11.43)		Height dimensions based on commonly ordered parts. Optimized heights available.	
D Max. in. (mm)	.275 (6.99)		.425 (10.80)		1.075 (27.31)			
E Max. in. (mm)	.300 (7.62)		.440 (11.18)		.500 (12.70)			
# of 'S' Leads per Side	1		2		5			

Notes: 1. 75V parts are also available. Capacitance values of 75V parts are half-way between 50V and 100V.
2. Other sizes, capacitances, lead frames, dielectrics (BP, BX, BR, BQ), and voltage ratings are available. Consult factory.

