

LOW PROFILE 'S' LEAD CAPACITORS

LOW PROFILE · LOW STANDOFF

APPLICATIONS:

- Industrial
- Military
- Space

FEATURES:

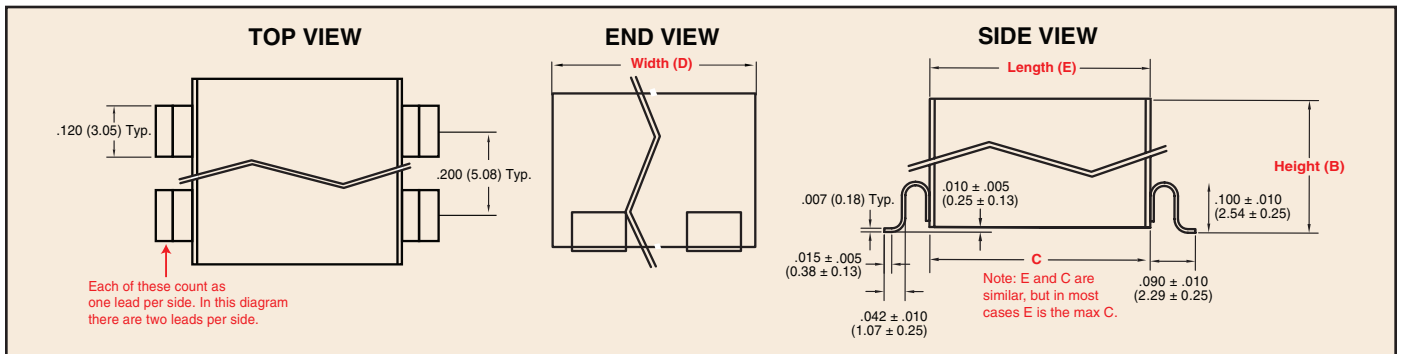
- Lowest center of gravity
- Excellent thermal coefficient of expansion compliance with board
- Can be screened similar to MIL-PRF-49470
- Available in most chip sizes



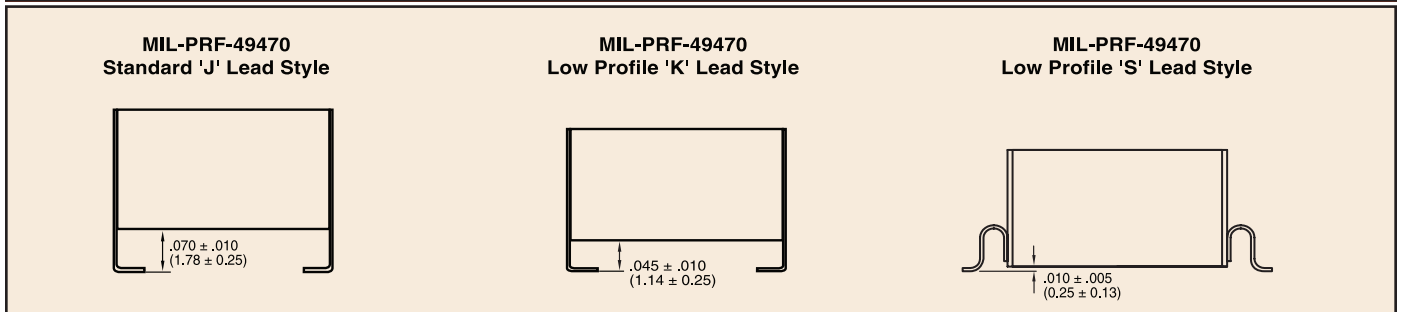
CERAMIC TYPE:

- 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.



7169 Construction Court, San Diego, CA 92121 USA • Tel: +1-858-578-9390 • Fax: +1-858-578-6225

www.presidiocomponents.com • info@presidiocomponents.com

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.

