

PERFORMANCE SPECIFICATION SHEET

CAPACITOR, FIXED, CERAMIC DIELECTRIC, SWITCH MODE
POWER SUPPLY (GENERAL PURPOSE AND TEMPERATURE STABLE),
STANDARD RELIABILITY AND HIGH RELIABILITY,
UNENCAPSULATED, HORIZONTALLY STACKED, STYLE PS01

This specification sheet is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein
shall consist of this specification sheet and [MIL-PRF-49470](#).

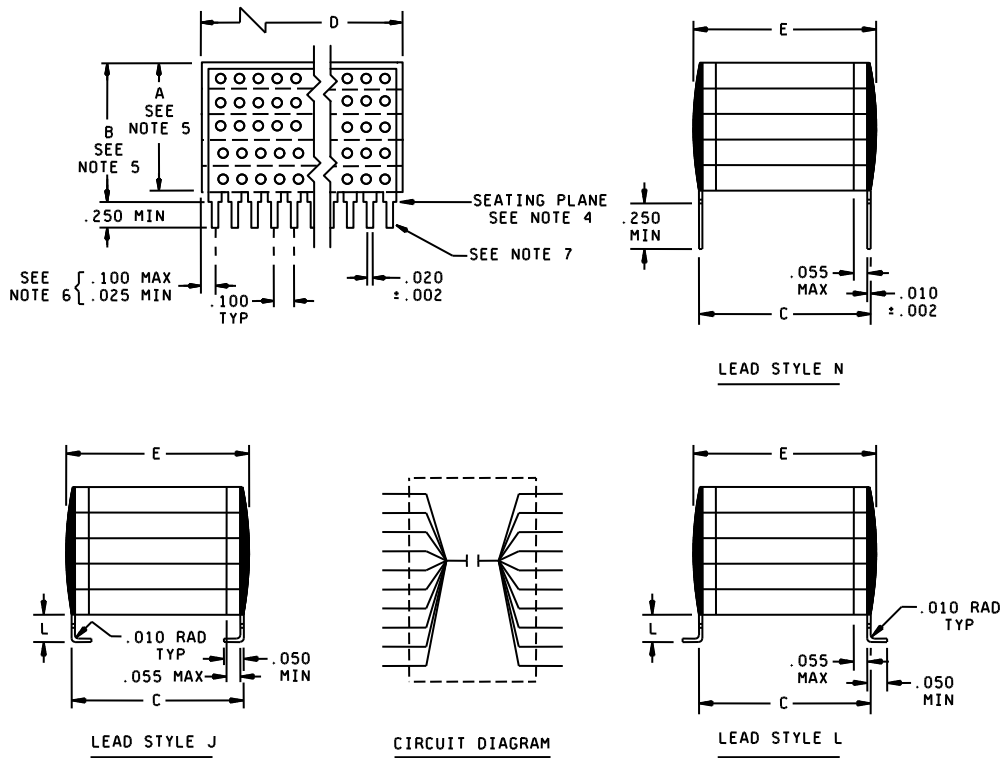


FIGURE 1. Style PS01 capacitors.



MIL-PRF-49470/1F

Dimensions					
Case code	C ± .025	D		E (max)	Number of leads per side
		Min	Max		
1	.450	1.950	2.075	.500	20
2	.800	1.450	1.535	.870	15
3	.450	.950	1.075	.500	10
4	.400	.350	.425	.440	4
5	.250	.224	.275	.300	3
6	1.250	1.950	2.075	1.350	20

Inches	mm
.002	0.05
.010	0.25
.020	0.51
.025	0.64
.050	1.27
.055	1.40
.070	1.78
.100	2.54
.224	5.69
.250	6.35
.275	6.98
.300	7.62
.350	8.89
.400	10.16
.425	10.80
.440	11.18
.450	11.43
.500	12.70
.800	20.32
.870	22.10
.950	24.13
1.075	27.30
1.250	31.75
1.350	34.29
1.450	36.83
1.535	38.99
1.950	49.53
2.075	52.70

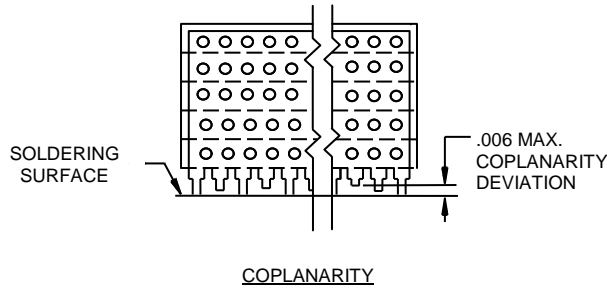
Symbol (last digit of PIN)	Lead style	Height profile (Dimension A)	Formed lead length, L (inches)
N	N (straight)	Standard	N/A
L	L (formed)	Standard	.070 ± .010
M	L (formed)	Standard	.045 ± .010
J	J (formed)	Standard	.070 ± .010
K	J (formed)	Standard	.045 ± .010
A	N (straight)	Low	N/A
B	L (formed)	Low	.070 ± .010
D	L (formed)	Low	.045 ± .010
C	J (formed)	Low	.070 ± .010
F	J (formed)	Low	.045 ± .010

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ±.010 inch (0.25 mm).
4. Lead frame configuration is shown as typical above the seating plane. The seating plane shall be configured to create a standoff height of .055 inch ±.010 inch when the part is mounted to a printed circuit board (PCB). The standoff height shall be the distance between the PCB and the bottom of the chip stack. A seating plane is only required for lead style N.
5. See [table I](#) for specific maximum A dimension. For maximum B dimension, add .065 inch (1.65 mm) to the appropriate A dimension. For all lead styles, the number of chips is determined by the capacitance and voltage rating.
6. For case code 5, dimensions shall be .100 inch (2.54 mm) maximum and .012 inch (0.30 mm) minimum.
7. Lead alignment within pin rows shall be within ±.005 inch (0.13 mm). Lead alignment between pin rows shall be within one half of the lead width (.010 inch (0.25 mm)).

FIGURE 1. Style PS01 capacitors - Continued.

MIL-PRF-49470/1F



NOTES:

1. Deviation from coplanarity shall not exceed .006 inch (0.15 mm).

FIGURE 2. Additional requirements for lead styles J and L.

REQUIREMENTS:

Precautionary note: Capacitors covered by this specification sheet are very susceptible to thermal shock damage due to their large ceramic mass. Temperature profiles used should provide adequate temperature rise and cool-down time to prevent damage from thermal shock.

Dimensions and configurations: See [figure 1](#) and [figure 2](#).

Case type: Unencapsulated, horizontally stacked.

Capacitance: See [table I](#).

Capacitance tolerance: J = ± 5 percent, K = ± 10 percent, M = ± 20 percent.

Operating temperature range: -55°C to $+125^{\circ}\text{C}$.

Voltage rating: See [table I](#).

Dielectric types: BP, BQ, BR, and BX in accordance with [MIL-PRF-49470](#).

Temperature coefficient: $0 \text{ ppm}/^{\circ}\text{C} \pm 30 \text{ ppm}/^{\circ}\text{C}$ (BP), ± 15 percent (BQ, BR, BX).

Voltage-temperature limits: In accordance with [MIL-PRF-49470](#).

Symbol	Capacitance change with reference to $+25^{\circ}\text{C}$	
	Step A through step D of voltage-temperature limit cycle table of MIL-PRF-49470	Step E through step G of voltage-temperature limit cycle table of MIL-PRF-49470
BP	$0 \text{ ppm}/^{\circ}\text{C} \pm 30 \text{ ppm}/^{\circ}\text{C}$	$0 \text{ ppm}/^{\circ}\text{C} \pm 30 \text{ ppm}/^{\circ}\text{C}$
BQ	± 15 percent	+15, -50 percent
BR	± 15 percent	+15, -40 percent
BX	± 15 percent	+15, -25 percent

Marking: In accordance with [MIL-PRF-49470](#).

Body insulation: Not applicable.

Solderability: The leads shall be solderable up to the seating plane.

MIL-PRF-49470/1F

TABLE I. Capacitor characteristics.

Part or Identifying Number (PIN) 1/	Capacitance μF	Capacitance tolerance	Characteristic	Case code	Config.	Maximum A dimension inch (mm)
25 V						
-49470X01155-Z-	1.5	K, M	BX	5	N, L, M, J, K	.120 (3.05)
-49470X01185-Z-	1.8	K, M	BX	5	N, L, M, J, K	.120 (3.05)
-49470X01225-Z-	2.2	K, M	BX	5	N, L, M, J, K	.120 (3.05)
-49470X01275-Z-	2.7	K, M	BX	5	N, L, M, J, K	.240 (6.10)
-49470X01335-Z-	3.3	K, M	BX	5	N, L, M, J, K	.240 (6.10)
-49470X01395-Z-	3.9	K, M	BX	5	N, L, M, J, K	.240 (6.10)
-49470X01475-Z-	4.7	K, M	BX	5	N, L, M, J, K	.240 (6.10)
-49470X01565-Z-	5.6	K, M	BX	5	N, L, M, J, K	.360 (9.14)
-49470X01685-Z-	6.8	K, M	BX	5	N, L, M, J, K	.360 (9.14)
-49470X01685-Z-	6.8	K, M	BX	4	A, B, D, C, F	.120 (3.05)
-49470X01825-Z-	8.2	K, M	BX	5	N, L, M, J, K	.480 (12.19)
-49470X01825-Z-	8.2	K, M	BX	4	A, B, D, C, F	.240 (6.10)
-49470X01106-Z-	10	K, M	BX	5	N, L, M, J, K	.650 (16.51)
-49470X01106-Z-	10	K, M	BX	4	A, B, D, C, F	.240 (6.10)
-49470X01126-Z-	12	K, M	BX	4	N, L, M, J, K	.240 (6.10)
-49470X01156-Z-	15	K, M	BX	4	N, L, M, J, K	.360 (9.14)
-49470X01156-Z-	15	K, M	BX	3	A, B, D, C, F	.120 (3.05)
-49470X01186-Z-	18	K, M	BX	4	N, L, M, J, K	.360 (9.14)
-49470X01186-Z-	18	K, M	BX	3	A, B, D, C, F	.120 (3.05)
-49470X01226-Z-	22	K, M	BX	4	N, L, M, J, K	.480 (12.19)
-49470X01226-Z-	22	K, M	BX	3	A, B, D, C, F	.240 (6.10)
-49470X01276-Z-	27	K, M	BX	4	N, L, M, J, K	.480 (12.19)
-49470X01276-Z-	27	K, M	BX	3	A, B, D, C, F	.240 (6.10)
-49470X01336-Z-	33	K, M	BX	4	N, L, M, J, K	.650 (16.51)
-49470X01336-Z-	33	K, M	BX	3	A, B, D, C, F	.240 (6.10)
-49470X01396-Z-	39	K, M	BX	3	N, L, M, J, K	.360 (9.14)
-49470X01396-Z-	39	K, M	BX	1	A, B, D, C, F	.240 (6.10)
-49470X01476-Z-	47	K, M	BX	3	N, L, M, J, K	.360 (9.14)
-49470X01476-Z-	47	K, M	BX	1	A, B, D, C, F	.240 (6.10)
-49470X01566-Z-	56	K, M	BX	3	N, L, M, J, K	.480 (12.19)
-49470X01566-Z-	56	K, M	BX	1	A, B, D, C, F	.360 (9.14)
-49470X01686-Z-	68	K, M	BX	3	N, L, M, J, K	.480 (12.19)
-49470X01686-Z-	68	K, M	BX	1	A, B, D, C, F	.360 (9.14)
-49470X01826-Z-	82	K, M	BX	3	N, L, M, J, K	.650 (16.51)
-49470X01826-Z-	82	K, M	BX	1	A, B, D, C, F	.360 (9.14)
-49470X01107-Z-	100	K, M	BX	1	N, L, M, J, K	.480 (12.19)
-49470X01107-Z-	100	K, M	BX	2	A, B, D, C, F	.360 (9.14)
-49470X01127-Z-	120	K, M	BX	1	N, L, M, J, K	.650 (16.51)
-49470X01127-Z-	120	K, M	BX	2	A, B, D, C, F	.360 (9.14)
-49470X01157-Z-	150	K, M	BX	2	N, L, M, J, K	.480 (12.19)
-49470X01157-Z-	150	K, M	BX	6	A, B, D, C, F	.240 (6.10)
-49470X01187-Z-	180	K, M	BX	2	N, L, M, J, K	.650 (16.51)

See footnote at end of table.

MIL-PRF-49470/1F

TABLE I. Capacitor characteristics - Continued.

Part or Identifying Number (PIN) 1/	Capacitance μF	Capacitance tolerance	Characteristic	Case code	Config.	Maximum A dimension inch (mm)
25 V						
-49470X01187-Z-	180	K, M	BX	6	A, B, D, C, F	.360 (9.14)
-49470X01227-Z-	220	K, M	BX	6	N, L, M, J, K	.360 (9.14)
-49470X01277-Z-	270	K, M	BX	6	N, L, M, J, K	.480 (12.19)
-49470X01337-Z-	330	K, M	BX	6	N, L, M, J, K	.650 (16.51)
-49470X01397-Z-	390	K, M	BX	6	N, L, M, J, K	.650 (16.51)
50 V						
-49470P01563-A-	0.056	J, K	BP	5	N, L, M, J, K	.120 (3.05)
-49470P01683-A-	0.068	J, K	BP	5	N, L, M, J, K	.240 (6.10)
-49470P01823-A-	0.082	J, K	BP	5	N, L, M, J, K	.240 (6.10)
-49470P01104-A-	0.1	J, K	BP	5	N, L, M, J, K	.240 (6.10)
-49470P01124-A-	0.12	J, K	BP	5	N, L, M, J, K	.360 (9.14)
-49470P01154-A-	0.15	J, K	BP	5	N, L, M, J, K	.360 (9.14)
-49470P01184-A-	0.18	J, K	BP	5	N, L, M, J, K	.480 (12.19)
-49470P01184-A-	0.18	J, K	BP	4	A, B, D, C, F	.240 (6.10)
-49470P01224-A-	0.22	J, K	BP	5	N, L, M, J, K	.480 (12.19)
-49470P01224-A-	0.22	J, K	BP	4	A, B, D, C, F	.240 (6.10)
-49470P01274-A-	0.27	J, K	BP	5	N, L, M, J, K	.650 (16.51)
-49470P01274-A-	0.27	J, K	BP	4	A, B, D, C, F	.240 (6.10)
-49470P01334-A-	0.33	J, K	BP	4	N, L, M, J, K	.360 (9.14)
-49470P01394-A-	0.39	J, K	BP	4	N, L, M, J, K	.480 (12.19)
-49470P01474-A-	0.47	J, K	BP	4	N, L, M, J, K	.480 (12.19)
-49470P01564-A-	0.56	J, K	BP	4	N, L, M, J, K	.650 (16.61)
-49470P01564-A-	0.56	J, K	BP	3	A, B, D, C, F	.240 (6.10)
-49470P01684-A-	0.68	J, K	BP	3	N, L, M, J, K	.240 (6.10)
-49470P01824-A-	0.82	J, K	BP	3	N, L, M, J, K	.240 (6.10)
-49470P01105-A-	1	J, K	BP	3	N, L, M, J, K	.360 (9.14)
-49470X01105-A-	1	K, M	BX	5	N, L, M, J, K	.120 (3.05)
-49470P01125-A-	1.2	J, K	BP	3	N, L, M, J, K	.360 (9.14)
-49470X01125-A-	1.2	K, M	BX	5	N, L, M, J, K	.120 (3.05)
-49470P01155-A-	1.5	J, K	BP	3	N, L, M, J, K	.480 (12.19)
-49470X01155-A-	1.5	K, M	BX	5	N, L, M, J, K	.240 (6.10)
-49470P01185-A-	1.8	J, K	BP	3	N, L, M, J, K	.480 (12.19)
-49470X01185-A-	1.8	K, M	BX	5	N, L, M, J, K	.240 (6.10)
-49470P01225-A-	2.2	J, K	BP	3	N, L, M, J, K	.650 (16.51)
-49470P01225-A-	2.2	J, K	BP	2	A, B, D, C, F	.240 (6.10)
-49470X01225-A-	2.2	K, M	BX	5	N, L, M, J, K	.240 (6.10)
-49470P01275-A-	2.7	J, K	BP	1	N, L, M, J, K	.360 (9.14)
-49470P01275-A-	2.7	J, K	BP	2	A, B, D, C, F	.240 (6.10)
-49470X01275-A-	2.7	K, M	BX	5	N, L, M, J, K	.360 (9.14)
-49470P01335-A-	3.3	J, K	BP	1	N, L, M, J, K	.480 (12.19)
-49470P01335-A-	3.3	J, K	BP	2	A, B, D, C, F	.360 (9.14)
-49470X01335-A-	3.3	K, M	BX	5	N, L, M, J, K	.360 (9.14)

See footnote at end of table.

MIL-PRF-49470/1F

TABLE I. Capacitor characteristics - Continued.

Part or Identifying Number (PIN) 1/	Capacitance μF	Capacitance tolerance	Characteristic	Case code	Config.	Maximum A dimension inch (mm)
50 V						
-49470P01395-A-	3.9	J, K	BP	1	N, L, M, J, K	.480 (12.19)
-49470P01395-A-	3.9	J, K	BP	2	A, B, D, C, F	.360 (9.14)
-49470X01395-A-	3.9	K, M	BX	5	N, L, M, J, K	.480 (12.19)
-49470P01475-A-	4.7	J, K	BP	1	N, L, M, J, K	.650 (16.51)
-49470P01475-A-	4.7	J, K	BP	2	A, B, D, C, F	.480 (12.19)
-49470X01475-A-	4.7	K, M	BX	5	N, L, M, J, K	.480 (12.19)
-49470X01475-A-	4.7	K, M	BX	4	A, B, D, C, F	.240 (6.10)
-49470P01565-A-	5.6	J, K	BP	2	N, L, M, J, K	.650 (16.51)
-49470X01565-A-	5.6	K, M	BX	5	N, L, M, J, K	.650 (16.51)
-49470X01565-A-	5.6	K, M	BX	4	A, B, D, C, F	.240 (6.10)
-49470P01685-A-	6.8	J, K	BP	6	N, L, M, J, K	.360 (9.14)
-49470X01685-A-	6.8	K, M	BX	4	N, L, M, J, K	.360 (9.14)
-49470P01825-A-	8.2	J, K	BP	6	N, L, M, J, K	.360 (9.14)
-49470X01825-A-	8.2	K, M	BX	4	N, L, M, J, K	.360 (9.14)
-49470P01106-A-	10	J, K	BP	6	N, L, M, J, K	.480 (12.19)
-49470X01106-A-	10	K, M	BX	4	N, L, M, J, K	.480 (12.19)
-49470P01126-A-	12	J, K	BP	6	N, L, M, J, K	.480 (12.19)
-49470X01126-A-	12	K, M	BX	4	N, L, M, J, K	.480 (12.19)
-49470P01156-A-	15	J, K	BP	6	N, L, M, J, K	.650 (16.51)
-49470X01156-A-	15	K, M	BX	4	N, L, M, J, K	.650 (16.51)
-49470X01156-A-	15	K, M	BX	3	A, B, D, C, F	.240 (6.10)
-49470X01186-A-	18	K, M	BX	3	N, L, M, J, K	.240 (6.10)
-49470X01226-A-	22	K, M	BX	3	N, L, M, J, K	.360 (9.14)
-49470X01276-A-	27	K, M	BX	3	N, L, M, J, K	.360 (9.14)
-49470X01336-A-	33	K, M	BX	3	N, L, M, J, K	.360 (9.14)
-49470X01396-A-	39	K, M	BX	3	N, L, M, J, K	.480 (12.19)
-49470X01476-A-	47	K, M	BX	3	N, L, M, J, K	.650 (16.51)
-49470X01476-A-	47	K, M	BX	2	A, B, D, C, F	.240 (6.10)
-49470X01566-A-	56	K, M	BX	1	N, L, M, J, K	.360 (9.14)
-49470X01566-A-	56	K, M	BX	2	A, B, D, C, F	.240 (6.10)
-49470X01686-A-	68	K, M	BX	1	N, L, M, J, K	.480 (12.19)
-49470X01686-A-	68	K, M	BX	2	A, B, D, C, F	.360 (9.14)
-49470X01826-A-	82	K, M	BX	1	N, L, M, J, K	.480 (12.19)
-49470X01826-A-	82	K, M	BX	2	A, B, D, C, F	.360 (9.14)
-49470X01107-A-	100	K, M	BX	1	N, L, M, J, K	.650 (16.51)
-49470X01107-A-	100	K, M	BX	2	A, B, D, C, F	.480 (12.19)
-49470X01127-A-	120	K, M	BX	2	N, L, M, J, K	.480 (12.19)
-49470X01157-A-	150	K, M	BX	2	N, L, M, J, K	.650 (16.51)
-49470X01187-A-	180	K, M	BX	6	N, L, M, J, K	.480 (12.19)
-49470X01227-A-	220	K, M	BX	6	N, L, M, J, K	.480 (12.19)
-49470X01277-A-	270	K, M	BX	6	N, L, M, J, K	.650 (16.51)

See footnote at end of table.

MIL-PRF-49470/1F

TABLE I. Capacitor characteristics - Continued.

Part or Identifying Number (PIN) 1/	Capacitance μF	Capacitance tolerance	Characteristic	Case code	Config.	Maximum A dimension inch (mm)
100 V						
-49470P01473-B-	0.047	J, K	BP	5	N, L, M, J, K	.240 (6.10)
-49470P01563-B-	0.056	J, K	BP	5	N, L, M, J, K	.240 (6.10)
-49470P01683-B-	0.068	J, K	BP	5	N, L, M, J, K	.240 (6.10)
-49470P01823-B-	0.082	J, K	BP	5	N, L, M, J, K	.240 (6.10)
-49470P01104-B-	0.1	J, K	BP	5	N, L, M, J, K	.360 (9.14)
-49470P01124-B-	0.12	J, K	BP	5	N, L, M, J, K	.360 (9.14)
-49470P01154-B-	0.15	J, K	BP	5	N, L, M, J, K	.480 (12.19)
-49470P01154-B-	0.15	J, K	BP	4	A, B, D, C, F	.240 (6.10)
-49470P01184-B-	0.18	J, K	BP	5	N, L, M, J, K	.650 (16.51)
-49470P01184-B-	0.18	J, K	BP	4	A, B, D, C, F	.240 (6.10)
-49470P01224-B-	0.22	J, K	BP	5	N, L, M, J, K	.650 (16.51)
-49470P01224-B-	0.22	J, K	BP	4	A, B, D, C, F	.240 (6.10)
-49470P01274-B-	0.27	J, K	BP	4	N, L, M, J, K	.360 (9.14)
-49470P01334-B-	0.33	J, K	BP	4	N, L, M, J, K	.480 (12.19)
-49470P01394-B-	0.39	J, K	BP	4	N, L, M, J, K	.480 (12.19)
-49470P01474-B-	0.47	J, K	BP	4	N, L, M, J, K	.650 (16.51)
-49470P01474-B-	0.47	J, K	BP	3	A, B, D, C, F	.240 (6.10)
-49470P01564-B-	0.56	J, K	BP	4	N, L, M, J, K	.650 (16.51)
-49470P01564-B-	0.56	J, K	BP	3	A, B, D, C, F	.240 (6.10)
-49470P01684-B-	0.68	J, K	BP	3	N, L, M, J, K	.240 (6.10)
-49470X01684-B-	0.68	K, M	BX	5	N, L, M, J, K	.120 (3.05)
-49470P01824-B-	0.82	J, K	BP	3	N, L, M, J, K	.360 (9.14)
-49470X01824-B-	0.82	K, M	BX	5	N, L, M, J, K	.240 (6.10)
-49470P01105-B-	1	J, K	BP	3	N, L, M, J, K	.360 (9.14)
-49470X01105-B-	1	K, M	BX	5	N, L, M, J, K	.240 (6.10)
-49470P01125-B-	1.2	J, K	BP	3	N, L, M, J, K	.480 (12.19)
-49470X01125-B-	1.2	K, M	BX	5	N, L, M, J, K	.240 (6.10)
-49470P01155-B-	1.5	J, K	BP	3	N, L, M, J, K	.480 (12.19)
-49470X01155-B-	1.5	K, M	BX	5	N, L, M, J, K	.360 (9.14)
-49470P01185-B-	1.8	J, K	BP	3	N, L, M, J, K	.650 (16.51)
-49470P01185-B-	1.8	J, K	BP	2	A, B, D, C, F	.240 (6.10)
-49470X01185-B-	1.8	K, M	BX	5	N, L, M, J, K	.360 (9.14)
-49470P01225-B-	2.2	J, K	BP	1	N, L, M, J, K	.480 (12.19)
-49470X01225-B-	2.2	K, M	BX	5	N, L, M, J, K	.480 (12.19)
-49470X01225-B-	2.2	K, M	BX	4	A, B, D, C, F	.240 (6.10)
-49470P01275-B-	2.7	J, K	BP	1	N, L, M, J, K	.480 (12.19)
-49470X01275-B-	2.7	K, M	BX	5	N, L, M, J, K	.480 (12.19)
-49470P01335-B-	3.3	J, K	BP	1	N, L, M, J, K	.650 (16.51)
-49470P01335-B-	3.3	J, K	BP	2	A, B, D, C, F	.480 (12.19)
-49470X01335-B-	3.3	K, M	BX	5	N, L, M, J, K	.650 (16.51)
-49470X01335-B-	3.3	K, M	BX	4	A, B, D, C, F	.240 (6.10)
-49470P01395-B-	3.9	J, K	BP	2	N, L, M, J, K	.480 (12.19)

See footnote at end of table.

MIL-PRF-49470/1F

TABLE I. Capacitor characteristics - Continued.

Part or Identifying Number (PIN) 1/	Capacitance μF	Capacitance tolerance	Characteristic	Case code	Config.	Maximum A dimension inch (mm)
100 V						
-49470X01395-B-	3.9	K, M	BX	4	N, L, M, J, K	.360 (9.14)
-49470P01475-B-	4.7	J, K	BP	2	N, L, M, J, K	.650 (16.51)
-49470X01475-B-	4.7	K, M	BX	4	N, L, M, J, K	.360 (9.14)
-49470P01565-B-	5.6	J, K	BP	6	N, L, M, J, K	.360 (9.14)
-49470X01565-B-	5.6	K, M	BX	4	N, L, M, J, K	.480 (12.19)
-49470P01685-B-	6.8	J, K	BP	6	N, L, M, J, K	.360 (9.14)
-49470X01685-B-	6.8	K, M	BX	4	N, L, M, J, K	.480 (12.19)
-49470P01825-B-	8.2	J, K	BP	6	N, L, M, J, K	.480 (12.19)
-49470X01825-B-	8.2	K, M	BX	4	N, L, M, J, K	.650 (16.51)
-49470X01825-B-	8.2	K, M	BX	3	A, B, D, C, F	.240 (6.10)
-49470P01106-B-	10	J, K	BP	6	N, L, M, J, K	.650 (16.51)
-49470X01106-B-	10	K, M	BX	3	N, L, M, J, K	.240 (6.10)
-49470P01126-B-	12	J, K	BP	6	N, L, M, J, K	.650 (16.51)
-49470X01126-B-	12	K, M	BX	3	N, L, M, J, K	.240 (6.10)
-49470X01156-B-	15	K, M	BX	3	N, L, M, J, K	.360 (9.14)
-49470X01186-B-	18	K, M	BX	3	N, L, M, J, K	.360 (9.14)
-49470X01226-B-	22	K, M	BX	3	N, L, M, J, K	.480 (12.19)
-49470X01276-B-	27	K, M	BX	3	N, L, M, J, K	.650 (16.51)
-49470X01276-B-	27	K, M	BX	2	A, B, D, C, F	.240 (6.10)
-49470X01336-B-	33	K, M	BX	1	N, L, M, J, K	.360 (9.14)
-49470X01336-B-	33	K, M	BX	2	A, B, D, C, F	.240 (6.10)
-49470X01396-B-	39	K, M	BX	1	N, L, M, J, K	.480 (12.19)
-49470X01396-B-	39	K, M	BX	2	A, B, D, C, F	.360 (9.14)
-49470X01476-B-	47	K, M	BX	1	N, L, M, J, K	.480 (12.19)
-49470X01476-B-	47	K, M	BX	2	A, B, D, C, F	.360 (9.14)
-49470X01566-B-	56	K, M	BX	1	N, L, M, J, K	.650 (16.51)
-49470X01686-B-	68	K, M	BX	2	N, L, M, J, K	.480 (12.19)
-49470X01826-B-	82	K, M	BX	2	N, L, M, J, K	.650 (16.51)
-49470X01107-B-	100	K, M	BX	6	N, L, M, J, K	.360 (9.14)
-49470X01127-B-	120	K, M	BX	6	N, L, M, J, K	.360 (9.14)
-49470X01157-B-	150	K, M	BX	6	N, L, M, J, K	.480 (12.19)
-49470X01187-B-	180	K, M	BX	6	N, L, M, J, K	.650 (16.51)
200V						
-49470P01223-C-	0.022	J, K	BP	5	N, L, M, J, K	.120 (3.05)
-49470P01273-C-	0.027	J, K	BP	5	N, L, M, J, K	.240 (6.10)
-49470P01333-C-	0.033	J, K	BP	5	N, L, M, J, K	.240 (6.10)
-49470P01393-C-	0.039	J, K	BP	5	N, L, M, J, K	.240 (6.10)
-49470P01473-C-	0.047	J, K	BP	5	N, L, M, J, K	.360 (9.14)
-49470P01563-C-	0.056	J, K	BP	5	N, L, M, J, K	.360 (9.14)
-49470P01683-C-	0.068	J, K	BP	5	N, L, M, J, K	.480 (12.19)
-49470P01683-C-	0.068	J, K	BP	4	A, B, D, C, F	.120 (3.05)
-49470P01823-C-	0.082	J, K	BP	5	N, L, M, J, K	.480 (12.19)

See footnote at end of table.

MIL-PRF-49470/1F

TABLE I. Capacitor characteristics - Continued.

Part or Identifying Number (PIN) 1/	Capacitance μF	Capacitance tolerance	Characteristic	Case code	Config.	Maximum A dimension inch (mm)
200 V						
-49470P01823-C-	0.082	J, K	BP	4	A, B, D, C, F	.240 (6.10)
-49470P01104-C-	0.1	J, K	BP	5	N, L, M, J, K	.650 (16.51)
-49470P01104-C-	0.1	J, K	BP	4	A, B, D, C, F	.240 (6.10)
-49470P01124-C-	0.12	J, K	BP	4	N, L, M, J, K	.360 (9.14)
-49470P01154-C-	0.15	J, K	BP	4	N, L, M, J, K	.360 (9.14)
-49470P01184-C-	0.18	J, K	BP	4	N, L, M, J, K	.480 (12.19)
-49470P01224-C-	0.22	J, K	BP	4	N, L, M, J, K	.480 (12.19)
-49470P01274-C-	0.27	J, K	BP	4	N, L, M, J, K	.650 (16.51)
-49470P01274-C-	0.27	J, K	BP	3	A, B, D, C, F	.240 (6.10)
-49470P01334-C-	0.33	J, K	BP	3	N, L, M, J, K	.240 (6.10)
-49470P01394-C-	0.39	J, K	BP	3	N, L, M, J, K	.240 (6.10)
-49470P01474-C-	0.47	J, K	BP	3	N, L, M, J, K	.360 (9.14)
-49470R01474-C-	0.47	K, M	BR	5	N, L, M, J, K	.240 (6.10)
-49470P01564-C-	0.56	J, K	BP	3	N, L, M, J, K	.360 (9.14)
-49470R01564-C-	0.56	K, M	BR	5	N, L, M, J, K	.240 (6.10)
-49470P01684-C-	0.68	J, K	BP	3	N, L, M, J, K	.480 (12.19)
-49470R01684-C-	0.68	K, M	BR	5	N, L, M, J, K	.360 (9.14)
-49470P01824-C-	0.82	J, K	BP	3	N, L, M, J, K	.650 (16.51)
-49470P01824-C-	0.82	J, K	BP	2	A, B, D, C, F	.240 (6.10)
-49470R01824-C-	0.82	K, M	BR	5	N, L, M, J, K	.360 (9.14)
-49470P01105-C-	1	J, K	BP	3	N, L, M, J, K	.650 (16.51)
-49470P01105-C-	1	J, K	BP	2	A, B, D, C, F	.240 (6.10)
-49470R01105-C-	1	K, M	BR	5	N, L, M, J, K	.480 (12.19)
-49470R01105-C-	1	K, M	BR	4	A, B, D, C, F	.120 (3.05)
-49470P01125-C-	1.2	J, K	BP	1	N, L, M, J, K	.480 (12.19)
-49470P01125-C-	1.2	J, K	BP	2	A, B, D, C, F	.360 (9.14)
-49470R01125-C-	1.2	K, M	BR	5	N, L, M, J, K	.480 (12.19)
-49470R01125-C-	1.2	K, M	BR	4	A, B, D, C, F	.240 (6.10)
-49470P01155-C-	1.5	J, K	BP	1	N, L, M, J, K	.480 (12.19)
-49470P01155-C-	1.5	J, K	BP	2	A, B, D, C, F	.360 (9.14)
-49470R01155-C-	1.5	K, M	BR	5	N, L, M, J, K	.650 (16.51)
-49470R01155-C-	1.5	K, M	BR	4	A, B, D, C, F	.240 (6.10)
-49470P01185-C-	1.8	J, K	BP	1	N, L, M, J, K	.650 (16.51)
-49470P01185-C-	1.8	J, K	BP	2	A, B, D, C, F	.480 (12.19)
-49470R01185-C-	1.8	K, M	BR	4	N, L, M, J, K	.360 (9.14)
-49470P01225-C-	2.2	J, K	BP	2	N, L, M, J, K	.480 (12.19)
-49470R01225-C-	2.2	K, M	BR	4	N, L, M, J, K	.360 (9.14)
-49470P01275-C-	2.7	J, K	BP	2	N, L, M, J, K	.650 (16.51)
-49470R01275-C-	2.7	K, M	BR	4	N, L, M, J, K	.480 (12.19)
-49470P01335-C-	3.3	J, K	BP	6	N, L, M, J, K	.360 (9.14)
-49470R01335-C-	3.3	K, M	BR	4	N, L, M, J, K	.480 (12.19)
-49470P01395-C-	3.9	J, K	BP	6	N, L, M, J, K	.360 (9.14)

See footnote at end of table.

MIL-PRF-49470/1F

TABLE I. Capacitor characteristics - Continued.

Part or Identifying Number (PIN) 1/	Capacitance μF	Capacitance tolerance	Characteristic	Case code	Config.	Maximum A dimension inch (mm)
200 V						
-49470R01395-C-	3.9	K, M	BR	4	N, L, M, J, K	.650 (16.51)
-49470R01395-C-	3.9	K, M	BR	3	A, B, D, C, F	.240 (6.10)
-49470P01475-C-	4.7	J, K	BP	6	N, L, M, J, K	.480 (12.19)
-49470R01475-C-	4.7	K, M	BR	3	N, L, M, J, K	.240 (6.10)
-49470P01565-C-	5.6	J, K	BP	6	N, L, M, J, K	.650 (16.51)
-49470R01565-C-	5.6	K, M	BR	3	N, L, M, J, K	.240 (6.10)
-49470R01685-C-	6.8	K, M	BR	3	N, L, M, J, K	.360 (9.14)
-49470R01825-C-	8.2	K, M	BR	3	N, L, M, J, K	.360 (9.14)
-49470R01106-C-	10	K, M	BR	3	N, L, M, J, K	.480 (12.19)
-49470R01126-C-	12	K, M	BR	3	N, L, M, J, K	.650 (16.51)
-49470R01126-C-	12	K, M	BR	2	A, B, D, C, F	.240 (6.10)
-49470R01156-C-	15	K, M	BR	1	N, L, M, J, K	.360 (9.14)
-49470R01156-C-	15	K, M	BR	2	A, B, D, C, F	.240 (6.10)
-49470R01186-C-	18	K, M	BR	1	N, L, M, J, K	.480 (12.19)
-49470R01186-C-	18	K, M	BR	2	A, B, D, C, F	.360 (9.14)
-49470R01226-C-	22	K, M	BR	1	N, L, M, J, K	.650 (16.51)
-49470R01226-C-	22	K, M	BR	2	A, B, D, C, F	.360 (9.14)
-49470R01276-C-	27	K, M	BR	1	N, L, M, J, K	.650 (16.51)
-49470R01276-C-	27	K, M	BR	2	A, B, D, C, F	.480 (12.19)
-49470R01336-C-	33	K, M	BR	2	N, L, M, J, K	.480 (12.19)
-49470R01396-C-	39	K, M	BR	2	N, L, M, J, K	.650 (16.51)
-49470R01476-C-	47	K, M	BR	6	N, L, M, J, K	.240 (6.10)
-49470R01566-C-	56	K, M	BR	6	N, L, M, J, K	.360 (9.14)
-49470R01686-C-	68	K, M	BR	6	N, L, M, J, K	.360 (9.14)
-49470R01826-C-	82	K, M	BR	6	N, L, M, J, K	.480 (12.19)
-49470R01107-C-	100	K, M	BR	6	N, L, M, J, K	.650 (16.51)
-49470R01127-C-	120	K, M	BR	6	N, L, M, J, K	.650 (16.51)
500V						
-49470P01103-E-	0.01	J, K	BP	5	N, L, M, J, K	.120 (3.05)
-49470P01123-E-	0.012	J, K	BP	5	N, L, M, J, K	.240 (6.10)
-49470P01153-E-	0.015	J, K	BP	5	N, L, M, J, K	.240 (6.10)
-49470P01183-E-	0.018	J, K	BP	5	N, L, M, J, K	.240 (6.10)
-49470P01223-E-	0.022	J, K	BP	5	N, L, M, J, K	.360 (9.14)
-49470P01273-E-	0.027	J, K	BP	5	N, L, M, J, K	.360 (9.14)
-49470P01333-E-	0.033	J, K	BP	5	N, L, M, J, K	.480 (12.19)
-49470P01333-E-	0.033	J, K	BP	4	A, B, D, C, F	.240 (6.10)
-49470P01393-E-	0.039	J, K	BP	5	N, L, M, J, K	.480 (12.19)
-49470P01393-E-	0.039	J, K	BP	4	A, B, D, C, F	.240 (6.10)
-49470P01473-E-	0.047	J, K	BP	5	N, L, M, J, K	.650 (16.51)
-49470P01473-E-	0.047	J, K	BP	4	A, B, D, C, F	.360 (9.14)
-49470P01563-E-	0.056	J, K	BP	4	N, L, M, J, K	.360 (9.14)

See footnote at end of table.

MIL-PRF-49470/1F

TABLE I. Capacitor characteristics - Continued.

Part or Identifying Number (PIN) 1/	Capacitance μF	Capacitance tolerance	Characteristic	Case code	Config.	Maximum A dimension inch (mm)
500 V						
-49470P01683-E-	0.068	J, K	BP	4	N, L, M, J, K	.360 (9.14)
-49470P01823-E-	0.082	J, K	BP	4	N, L, M, J, K	.480 (12.19)
-49470P01104-E-	0.1	J, K	BP	4	N, L, M, J, K	.480 (12.19)
-49470P01124-E-	0.12	J, K	BP	4	N, L, M, J, K	.650 (16.51)
-49470P01124-E-	0.12	J, K	BP	3	A, B, D, C, F	.240 (6.10)
-49470P01154-E-	0.15	J, K	BP	3	N, L, M, J, K	.240 (6.10)
-49470Q01154-E-	0.15	K, M	BQ	5	N, L, M, J, K	.120 (3.05)
-49470P01184-E-	0.18	J, K	BP	3	N, L, M, J, K	.240 (6.10)
-49470Q01184-E-	0.18	K, M	BQ	5	N, L, M, J, K	.240 (6.10)
-49470P01224-E-	0.22	J, K	BP	3	N, L, M, J, K	.360 (9.14)
-49470Q01224-E-	0.22	K, M	BQ	5	N, L, M, J, K	.240 (6.10)
-49470P01274-E-	0.27	J, K	BP	3	N, L, M, J, K	.360 (9.14)
-49470Q01274-E-	0.27	K, M	BQ	5	N, L, M, J, K	.240 (6.10)
-49470P01334-E-	0.33	J, K	BP	3	N, L, M, J, K	.480 (12.19)
-49470Q01334-E-	0.33	K, M	BQ	5	N, L, M, J, K	.360 (9.14)
-49470P01394-E-	0.39	J, K	BP	3	N, L, M, J, K	.650 (16.51)
-49470P01394-E-	0.39	J, K	BP	2	A, B, D, C, F	.240 (6.10)
-49470Q01394-E-	0.39	K, M	BQ	5	N, L, M, J, K	.360 (9.14)
-49470P01474-E-	0.47	J, K	BP	1	N, L, M, J, K	.360 (9.14)
-49470P01474-E-	0.47	J, K	BP	2	A, B, D, C, F	.240 (6.10)
-49470Q01474-E-	0.47	K, M	BQ	5	N, L, M, J, K	.360 (9.14)
-49470P01564-E-	0.56	J, K	BP	1	N, L, M, J, K	.480 (12.19)
-49470P01564-E-	0.56	J, K	BP	2	A, B, D, C, F	.360 (9.14)
-49470Q01564-E-	0.56	K, M	BQ	5	N, L, M, J, K	.480 (12.19)
-49470Q01564-E-	0.56	K, M	BQ	4	A, B, D, C, F	.240 (6.10)
-49470P01684-E-	0.68	J, K	BP	1	N, L, M, J, K	.480 (12.19)
-49470P01684-E-	0.68	J, K	BP	2	A, B, D, C, F	.360 (9.14)
-49470Q01684-E-	0.68	K, M	BQ	5	N, L, M, J, K	.650 (16.51)
-49470Q01684-E-	0.68	K, M	BQ	4	A, B, D, C, F	.240 (6.10)
-49470P01824-E-	0.82	J, K	BP	1	N, L, M, J, K	.650 (16.51)
-49470P01824-E-	0.82	J, K	BP	2	A, B, D, C, F	.480 (12.19)
-49470Q01824-E-	0.82	K, M	BQ	4	N, L, M, J, K	.360 (9.14)
-49470P01105-E-	1	J, K	BP	2	N, L, M, J, K	.480 (12.19)
-49470Q01105-E-	1	K, M	BQ	4	N, L, M, J, K	.360 (9.14)
-49470P01125-E-	1.2	J, K	BP	2	N, L, M, J, K	.650 (16.51)
-49470Q01125-E-	1.2	K, M	BQ	4	N, L, M, J, K	.360 (9.14)
-49470P01155-E-	1.5	J, K	BP	6	N, L, M, J, K	.360 (9.14)
-49470Q01155-E-	1.5	K, M	BQ	4	N, L, M, J, K	.480 (12.19)
-49470P01185-E-	1.8	J, K	BP	6	N, L, M, J, K	.480 (12.19)
-49470Q01185-E-	1.8	K, M	BQ	4	N, L, M, J, K	.650 (16.51)
-49470Q01185-E-	1.8	K, M	BQ	3	A, B, D, C, F	.240 (6.10)

See footnote at end of table.

MIL-PRF-49470/1F

TABLE I. Capacitor characteristics - Continued.

Part or Identifying Number (PIN) ^{1/}	Capacitance μ F	Capacitance tolerance	Characteristic	Case code	Config.	Maximum A dimension inch (mm)
500 V						
-49470P01225-E-	2.2	J, K	BP	6	N, L, M, J, K	.650 (16.51)
-49470Q01225-E-	2.2	K, M	BQ	3	N, L, M, J, K	.240 (6.10)
-49470Q01275-E-	2.7	K, M	BQ	3	N, L, M, J, K	.360 (9.14)
-49470Q01335-E-	3.3	K, M	BQ	3	N, L, M, J, K	.360 (9.14)
-49470Q01395-E-	3.9	K, M	BQ	3	N, L, M, J, K	.360 (9.14)
-49470Q01475-E-	4.7	K, M	BQ	3	N, L, M, J, K	.480 (12.19)
-49470Q01565-E-	5.6	K, M	BQ	3	N, L, M, J, K	.650 (16.51)
-49470Q01565-E-	5.6	K, M	BQ	2	A, B, D, C, F	.240 (6.10)
-49470Q01685-E-	6.8	K, M	BQ	1	N, L, M, J, K	.480 (12.19)
-49470Q01685-E-	6.8	K, M	BQ	2	A, B, D, C, F	.240 (6.10)
-49470Q01825-E-	8.2	K, M	BQ	1	N, L, M, J, K	.480 (12.19)
-49470Q01825-E-	8.2	K, M	BQ	2	A, B, D, C, F	.360 (9.14)
-49470Q01106-E-	10	K, M	BQ	1	N, L, M, J, K	.480 (12.19)
-49470Q01106-E-	10	K, M	BQ	2	A, B, D, C, F	.360 (9.14)
-49470Q01126-E-	12	K, M	BQ	1	N, L, M, J, K	.650 (16.51)
-49470Q01126-E-	12	K, M	BQ	2	A, B, D, C, F	.480 (12.19)
-49470Q01156-E-	15	K, M	BQ	2	N, L, M, J, K	.650 (16.51)
-49470Q01186-E-	18	K, M	BQ	2	N, L, M, J, K	.650 (16.51)
-49470Q01226-E-	22	K, M	BQ	6	N, L, M, J, K	.360 (9.14)
-49470Q01276-E-	27	K, M	BQ	6	N, L, M, J, K	.360 (9.14)
-49470Q01336-E-	33	K, M	BQ	6	N, L, M, J, K	.480 (12.19)
-49470Q01396-E-	39	K, M	BQ	6	N, L, M, J, K	.650 (16.51)

^{1/} Complete PIN shall include additional symbols to indicate product level (M for B level, or T for T level), capacitance tolerance, and configuration as specified in [MIL-PRF-49470](#).

Changes from previous issue: The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians:
 Army - CR
 Navy - EC
 Air Force - 85
 DLA - CC
 Other - NA

Preparing activity:
 Army - CR

 Agent:
 DLA - CC

(Project 5910-2016-034)

Review activities:
 Army - AR, AT, AV, CR4, MI
 Navy - MC
 Air Force - 19, 99
 Other - MDA

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.