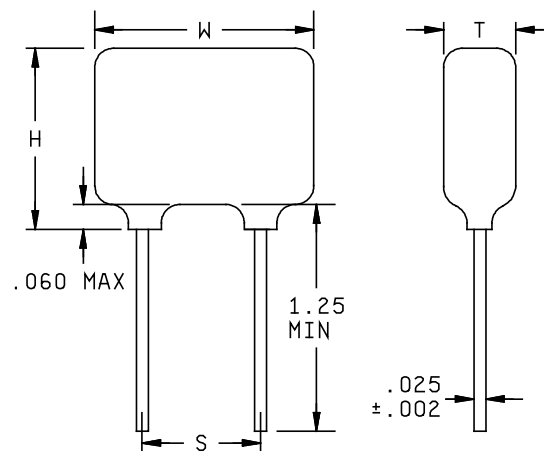


PERFORMANCE SPECIFICATION SHEET

CAPACITOR, CERAMIC, MULTILAYER, HIGH VOLTAGE, 600 V DC, STYLE HV07

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-49467](#).



Case code	Sizes (max.)			Lead spacing ± .030 (S)
	Width (W)	Height (H)	Thickness (T)	
A	.250	.220	.200	.170
B	.320	.280	.250	.220
C	.370	.300	.250	.275
D	.470	.400	.270	.375
E	.570	.500	.270	.475

Inches	mm	Inches	mm
.002	0.05	.280	7.11
.025	0.64	.300	7.62
.030	0.76	.320	8.13
.060	1.52	.370	9.40
.170	4.32	.375	9.53
.200	5.08	.400	10.16
.220	5.59	.470	11.94
.250	6.35	.475	12.07
.270	6.86	.500	12.70
.275	6.99	.570	14.48

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in millimeters and are given for general information only.
3. H dimension includes meniscus.
4. S dimension shall be maintained from chip body to end of leads.

FIGURE 1. Capacitor style HV07.



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REQUIREMENTS:

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

Case type: Conformally coated, molded, or encapsulated.

Lead material: In accordance with [MIL-PRF-49467](#).

Capacitance value: See [table I](#).

Capacitance tolerance: J = ± 5 percent, K = ± 10 percent, M = ± 20 percent. See [table I](#).

Operating temperature range: -55°C to +125°C.

Voltage rating: 600 V dc.

Dielectric types: BP and BR in accordance with [MIL-PRF-49467](#).

Temperature coefficient: 0 ± 30 ppm/°C (BP), ± 15 percent (BR).

Voltage-temperature limits: In accordance with [MIL-PRF-49467](#).

Symbol	Capacitance change with reference to +25°C	
	Steps A through D of voltage-temperature limit cycle table of MIL-PRF-49467 . Bias = 0 volt.	Steps E through G of voltage-temperature limit cycle table of MIL-PRF-49467 . 100 percent rated voltage.
BP	0 ± 30 ppm/°C	0 ± 30 ppm/°C
BR	± 15 percent	+15, -40 percent

Dissipation factor (+25°C): 2.5 percent maximum (BR characteristic) or 0.1 percent maximum (BP characteristic), measured under the same conditions as capacitance.

Resistance to soldering heat: In accordance with [MIL-PRF-49467](#).

Partial discharge (corona): Not applicable.

Radiographic inspection (molded and encapsulated case types only): In accordance with [MIL-PRF-49467](#).

Marking: In accordance with [MIL-PRF-49467](#).

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TABLE I. Capacitor characteristics.

Part or identifying number (PIN) /1	Capacitance	Capacitance tolerance	Characteristic	Case code
	pF			
M49467P07100-	10	J,K	BP	A
M49467P07120-	12	J,K	BP	A
M49467P07150-	15	J,K	BP	A
M49467P07180-	18	J,K	BP	A
M49467P07220-	22	J,K	BP	A
M49467P07270-	27	J,K	BP	A
M49467P07330-	33	J,K	BP	A
M49467P07390-	39	J,K	BP	A
M49467P07470-	47	J,K	BP	A
M49467P07560-	56	J,K	BP	A
M49467P07680-	68	J,K	BP	A
M49467P07820-	82	J,K	BP	A
M49467P07101-	100	J,K	BP	A
M49467R07101-	100	K,M	BR	A
M49467P07121-	120	J,K	BP	A
M49467R07121-	120	K,M	BR	A
M49467P07151-	150	J,K	BP	A
M49467R07151-	150	K,M	BR	A
M49467P07181-	180	J,K	BP	A
M49467R07181-	180	K,M	BR	A
M49467P07221-	220	J,K	BP	A
M49467R07221-	220	K,M	BR	A
M49467P07271-	270	J,K	BP	A
M49467R07271-	270	K,M	BR	A
M49467P07331-	330	J,K	BP	A
M49467R07331-	330	K,M	BR	A
M49467P07391-	390	J,K	BP	A
M49467R07391-	390	K,M	BR	A
M49467P07471-	470	J,K	BP	A
M49467R07471-	470	K,M	BR	A
M49467P07561-	560	J,K	BP	A
M49467R07561-	560	K,M	BR	A
M49467P07681-	680	J,K	BP	A
M49467R07681-	680	K,M	BR	A
M49467P07821-	820	J,K	BP	A
M49467R07821-	820	K,M	BR	A
M49467P07102-	1,000	J,K	BP	A
M49467R07102-	1,000	K,M	BR	A
M49467P07122-	1,200	J,K	BP	A
M49467R07122-	1,200	K,M	BR	A
M49467P07152-	1,500	J,K	BP	A
M49467R07152-	1,500	K,M	BR	A
M49467P07182-	1,800	J,K	BP	A
M49467R07182-	1,800	K,M	BR	A
M49467P07222-	2,200	J,K	BP	A
M49467R07222-	2,200	K,M	BR	A
M49467P07272-	2,700	J,K	BP	A
M49467R07272-	2,700	K,M	BR	A
M49467P07332-	3,300	J,K	BP	A
M49467R07332-	3,300	K,M	BR	A

See footnote at end of table.

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TABLE I. Capacitor characteristics - Continued.

PIN ^{1/}	Capacitance	Capacitance tolerance	Characteristic	Case code
	pF			
M49467P07392-	3,900	J,K	BP	A
M49467R07392-	3,900	K,M	BR	A
M49467P07472-	4,700	J,K	BP	A
M49467R07472-	4,700	K,M	BR	A
M49467P07562-	5,600	J,K	BP	A
M49467R07562-	5,600	K,M	BR	A
M49467P07682-	6,800	J,K	BP	B
M49467R07682-	6,800	K,M	BR	A
M49467P07822-	8,200	J,K	BP	B
M49467R07822-	8,200	K,M	BR	A
	μF			
M49467P07103-	.01	J,K	BP	B
M49467R07103-	.01	K,M	BR	A
M49467P07123-	.012	J,K	BP	B
M49467R07123-	.012	K,M	BR	A
M49467P07153-	.015	J,K	BP	C
M49467R07153-	.015	K,M	BR	A
M49467P07183-	.018	J,K	BP	D
M49467R07183-	.018	K,M	BR	A
M49467P07223-	.022	J,K	BP	D
M49467R07223-	.022	K,M	BR	A
M49467P07273-	.027	J,K	BP	D
M49467R07273-	.027	K,M	BR	A
M49467P07333-	.033	J,K	BP	D
M49467R07333-	.033	K,M	BR	B
M49467P07393-	.039	J,K	BP	D
M49467R07393-	.039	K,M	BR	B
M49467P07473-	.047	J,K	BP	E
M49467R07473-	.047	K,M	BR	B
M49467P07563-	.056	J,K	BP	E
M49467R07563-	.056	K,M	BR	B
M49467P07683-	.068	J,K	BP	E
M49467R07683-	.068	K,M	BR	B
M49467R07823-	.082	K,M	BR	B
M49467R07104-	.10	K,M	BR	C
M49467R07124-	.12	K,M	BR	D
M49467R07154-	.15	K,M	BR	D
M49467R07184-	.18	K,M	BR	D
M49467R07224-	.22	K,M	BR	D
M49467R07274-	.27	K,M	BR	D
M49467R07334-	.33	K,M	BR	E
M49467R07394-	.39	K,M	BR	E
M49467R07474-	.47	K,M	BR	E

^{1/} The complete PIN shall include an additional letter to indicate the capacitance tolerance.

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APPLICATION NOTES:

Additional encapsulation is necessary in applications where the possibility of a voltage breakdown between the leads of the capacitor, or between the capacitor and another potential, could occur.

Heat sinks on each lead or adequate preheating is required when these capacitors are installed in or removed from circuits by soldering iron.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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.

Custodians:

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

Preparing activity:

Army - CR

Agent:

DLA - CC

(Project 5910-2022-013)

Review activities:

Army - AT, AV, CR4, MI
Navy - MC
Air Force - 19

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 ASSIST Online database at <https://assist.dla.mil/>.