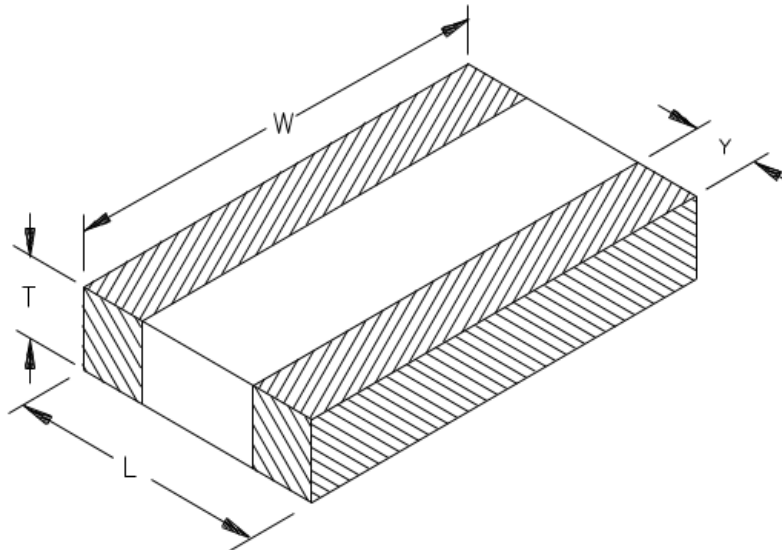


PERFORMANCE SPECIFICATION SHEET

CAPACITOR, CHIP, FIXED, CERAMIC DIELECTRIC (GENERAL PURPOSE), EXTENDED RANGE, HIGH RELIABILITY AND STANDARD RELIABILITY, SIZE 0306

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-32535](#).



Dimensions			
L	W	T	Y
$\pm .006$	$\pm .006$	Max.	Min.
.032	.063	.024	.005

inches	mm
.005	0.13
.006	0.15
.024	0.61
.032	0.81
.063	1.60

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in millimeters and are given for information only.
3. Dimensions and tolerances are for terminated chips.

FIGURE 1. Size 0306 capacitors.



MIL-PRF-32535/9A

REQUIREMENTS:

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

Capacitance value: See table I.

Capacitance tolerance: See table I.

Voltage-temperature limit or temperature characteristic: X7R and X7S as specified in [MIL-PRF-32535](#).

Rated voltage (V_{dc}): V = 4; W = 6.3; X = 10; Y = 16; Z = 25. See table I for maximum rated voltage available for each capacitance value.

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

Termination finish: G, H, M, R, V, and Z as specified in [MIL-PRF-32535](#).

Electrode: P and B as specified in [MIL-PRF-32535](#).

Product level designator: Standard reliability – M and high reliability - T.

Marking: Package marking only in accordance with [MIL-PRF-32535](#).

TABLE I. Size 0306 capacitor characteristics.

Part or Identifying Number (PIN) <u>1/</u>	Capacitance (pF)	Capacitance tolerance	VTL/TC	Rated voltage <u>2/</u> (V_{dc})	Electrode material
M3253509E2 - 102 - - - -	1,000	K, M	X7R	25	P, B
M3253509E2 - 222 - - - -	2,200	K, M	X7R	25	P, B
M3253509E2 - 472 - - - -	4,700	K, M	X7R	25	P, B
M3253509E2 - 103 - - - -	10,000	K, M	X7R	25	P, B
M3253509E2 - 153 - - - -	15,000	K, M	X7R	25	P, B
M3253509E2 - 223 - - - -	22,000	K, M	X7R	25	P, B
M3253509E2 - 473 - - - -	47,000	K, M	X7R	25	P, B
M3253509E2 - 683 - - - -	68,000	K, M	X7R	25	P, B
M3253509E2 - 104 - - - - <u>3/</u>	100,000	K, M	X7R	16	P, B
M3253509E3V224 - - - -	220,000	K, M	X7S	4	P, B
M3253509E3V334 - - - -	330,000	K, M	X7S	4	P, B
M3253509E3V474 - - - -	470,000	K, M	X7S	4	P, B
M3253509E3V105 - - - -	1,000,000	K, M	X7S	4	P, B

1/ The complete PIN shall include additional symbols to indicate voltage (where applicable), capacitance tolerance, termination finish, product level, and electrode material.

2/ This is the maximum rated voltage available. All lower voltage ratings are also available.

3/ For the 16V rated part, the dissipation factor shall not exceed 5.0 percent.

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 previous issue.

Custodians:

Army – CR
Navy - EC
Air Force – 85
DLA - CC

Preparing activity:

DLA - CC

(Project 5910-2025-026)

Review activities:

Army - MI
Navy - AS, MC, OS, SH
Air Force - 19
Other – MDA, NA

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>.