





| L         | W         | D        | E        |
|-----------|-----------|----------|----------|
| 3.20 ±0.2 | 1.60 ±0.2 | 1.02 max | 0.71 max |

| Mm   | Inches |
|------|--------|
| 0.2  | 0.01   |
| 0.71 | 0.028  |
| 1.02 | 0.040  |
| 1.60 | 0.063  |
| 3.20 | 0.126  |

NOTES:

1. Dimensions are in millimeters. Inch-pound equivalents are given for information only.
2. The US government preferred system of measurement is the metric SI system. However, this item was originally designed using inch-pound units of measurement. In the event of conflict between the metric and inch-pound units, the inch-pound units shall take precedence.

Figure 1. Interface and physical dimensions, style 1206.

TABLE I. Performance characteristics.

| Dash number    | Working Voltage (dc) max | Breakdown voltage | Clamping Voltage (max) <u>1/</u> | Peak current A (max) | Transient energy Joule (max) | Capacitance (pF) typical |       | Inductance (nH) Typical |
|----------------|--------------------------|-------------------|----------------------------------|----------------------|------------------------------|--------------------------|-------|-------------------------|
| Test Condition | <50 $\mu$ A              | 1 mA dc           | 8/20 $\mu$ s                     | 8/20 $\mu$ s         | 10/1000 $\mu$ s              | 0.5 V rms @              |       | Di/dt= 100 mA/ns        |
|                |                          |                   |                                  |                      |                              | 1 kHz                    | 1 MHz |                         |
| 001P           | 3.3 <u>2/</u>            | 4.1 – 6.0         | 10                               | 40                   | 0.1                          | 2000                     | 1500  | <1.7                    |
| 002P           | 3.3 <u>2/</u>            | 3.7 - 5.6         | 10                               | 150                  | 0.4                          | 4700                     | 3800  | 1.7                     |
| 003P           | 5.6                      | 7.6 - 9.3         | 15.5                             | 40                   | 0.1                          | 1200                     | 870   | <1.7                    |
| 004P           | 5.6                      | 7.1 - 8.7         | 15.5                             | 150                  | 0.4                          | 3000                     | 2300  | 1.7                     |
| 005P           | 14.0                     | 16.5 – 20.3       | 30                               | 40                   | 0.1                          | 600                      | 500   | <1.7                    |
| 006P           | 14.0                     | 15.9 – 19.4       | 30                               | 150                  | 0.4                          | 1200                     | 900   | 1.7                     |
| 007P           | 18.0 <u>3/</u>           | 22.9 – 28.0       | 40                               | 30                   | 0.1                          | 350                      | 270   | <1.7                    |
| 008P           | 18.0 <u>3/</u>           | 22.5 – 27.5       | 40                               | 150                  | 0.4                          | 800                      | 635   | 1.7                     |
| 009P           | 26.0                     | 30.5 – 37.3       | 58                               | 120                  | 0.4                          | 550                      | 450   | 1.7                     |
| 010P           | 30.0                     | 36.0 – 45.0       | 65                               | 120                  | 0.4                          | 500                      | 400   | 1.7                     |
| 011P           | 48.0                     | 56.0 – 68.0       | 100                              | 100                  | 0.4                          | 225                      | 185   | 1.7                     |

1/ Maximum peak voltage across the varistor measured at a specified pulse current and waveform.

Transient Energy Rating

0.1 Joule

$\geq 0.4$  Joules

Pulse Current and Waveform

2A 8/20  $\mu$ s

10A 8/20  $\mu$ s.

2/ Test condition <100 $\mu$ A

3/ Withstands 24.5 V dc for 5 minutes (automotive applications).

4. REGULATORY REQUIREMENTS. This section is not applicable to this CID.

5. PRODUCT CONFORMANCE PROVISIONS. Product conformance provisions shall be as specified in A-A-55562.

6. PACKAGING. Packaging shall be as specified in A-A-55562.

7. NOTES

7.1 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See section 2 for PIN format example.

7.2 Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these varistors to DSCC under the Military Parts Control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

7.3 Source of document.

Commercial Item Description

A-A-55562 - Resistor, Voltage Sensitive (Varistor, Metal Oxide), Chip.

(Copies of commercial item descriptions are available from the Document Automation and Production Service (DAPS), Building 4D (DPM-DODSSP), 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

7.4 Ordering data. Ordering data shall be as specified in A-A-55562.

7.5 Commercial products. As part of the market analysis and research effort, this CID was coordinated with the following manufacturers of commercial products. At the time of CID preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict procurement to only the manufacturers shown.)

| MFG's CAGE | MFG's name and address  |
|------------|---|
| 16299      | AVX Corporation<br>3900 Electronics Dr.<br>Raleigh, NC 27604-1698<br>(919) 878-6200 |

7.6 Part number (P/N) supersession data. These CID part numbers supersede the following MFR's P/N's as shown. This information is being provided to assist in reducing proliferation in the Government inventory system.

| CID dash number<br>(see table I)<br>AA5556203- | MFG's P/N <sup>1/</sup><br>for CAGE 16299 |
|--|---|
| 001P   | VC120603A100                              |
| 002P   | VC120603D100                              |
| 003P   | VC120605A150                              |
| 004P   | VC120605D150                              |
| 005P   | VC120614A300                              |
| 006P   | VC120614D300                              |
| 007P   | VC120618A400                              |
| 008P   | VC120618D400                              |
| 009P   | VC120626D580                              |
| 010P   | VC120630D650                              |
| 011P   | VC120648D101                              |

<sup>1/</sup> The manufacturer's P/N shall not be used for procurement to the requirements of this CID. At the time of preparation of this CID, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements see the marking paragraph.

7.7 Government users. To acquire information on obtaining these varistors from the Government inventory system, contact Defense Supply Center, Columbus, ATTN: DSCC-CP, P. O. Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-7684.

MILITARY INTERESTS:

Custodians:  
NAVY-EC  
DLA-CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

Preparing Activity:

DLA-CC

Project 5905-1614-03