

[ METRIC ]  
 A-A-55500/1  
 MAY 22, 1996

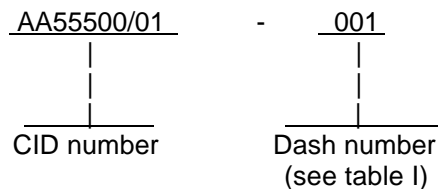
## COMMERCIAL ITEM DESCRIPTION

### SURFACE MOUNT SHIELDING BEAD

The General Services Administration has authorized the use of this commercial item description (CID) for all federal agencies.

1. **SCOPE.** This CID covers surface mount shielding beads made of ferrite material. Parts covered by this CID are intended for commercial/industrial applications.

2. **CLASSIFICATION.** This CID uses a classification system which is included in the Part or Identification Number (PIN). The PIN shall be AA55500/01- (plus a dash number figure 1). Complete PIN example: AA55500/01-001 (see 6.1).



### 3. SALIENT CHARACTERISTICS.

3.1 Design and construction. Shielding beads supplied to this CID shall be as specified herein and on the CID sheets.

3.2 Impedance. See table I.

3.3 DC resistance. See table I.

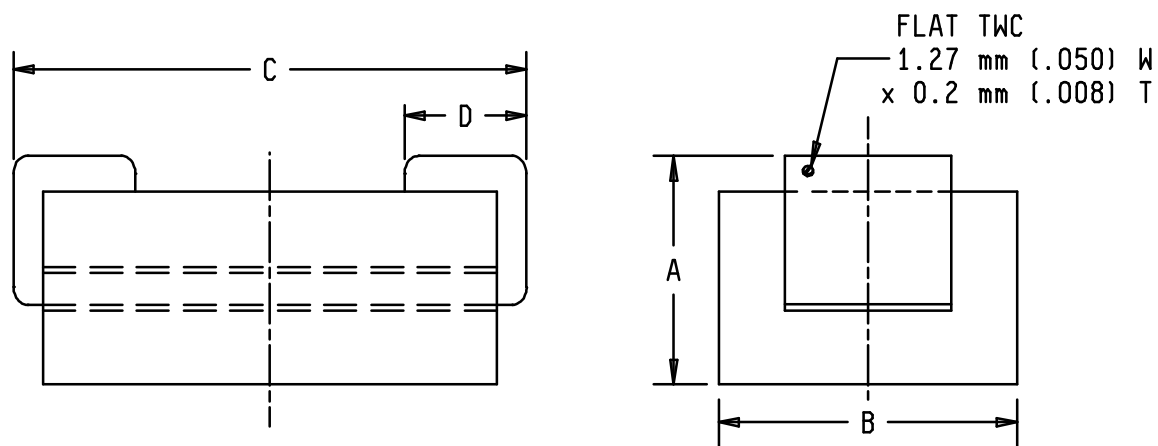
3.3 Workmanship. The shielding bead shall be fabricated and finished in such a manner that criteria for appearance, fix, and adherence to specific tolerances shall be observed. The shielding beads shall be uniform in quality and shall be free from defects that will affect life or serviceability.

3.4 Marking. Marking shall be as specified in A-A-55500.

4. **QUALITY ASSURANCE PROVISIONS.** Quality assurance provisions shall be as specified in A-A-55500.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be sent to: Defense Electronics Supply Center, ATTN: DESC-ELDM, 1507 Wilmington Pike, Dayton, OH 45444-5765, or telephone (513) 296-6189, or facsimile (FAX) (513) 296-8868.

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CID PIN AA55500/01	A Max	B		C		D	
		Min	Max	Min	Max	Min	Max
-001	3.05 (.120)	2.95 (.116)	3.15 (.124)	4.25 (.167)	5.10 (.201)	1.00 (.039)	2.00 (.079)
-002	3.05 (.120)	2.95 (.116)	3.15 (.124)	8.65 (.341)	9.60 (.378)	1.00 (.039)	2.00 (.079)
-003	2.90 (.114)	4.40 (.173)	4.80 (.189)	8.55 (.337)	9.25 (.364)	1.00 (.039)	1.40 (.055)

## NOTES:

1. Dimensions are in millimeters (inches in parentheses).
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. Configuration and dimensions.

5. **PACKAGING.** Packaging shall be as specified in A-A-55500.

6. **NOTES.**

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

6.2 CAGE code. For ordering purposes, inventory control, and submission of these shielding beads to DESC under the Military Parts Control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

TABLE I. DC resistance and impedance.

CID PIN AA55500/01	DC resistance max  (ohms)	Impedance (ohms)	
		25 MHz	100 MHz
-001	.0006	23 min	47 $\pm$ 20%
-002	.0009	45 min	95 $\pm$ 20%
-003	.0009	45 min	95 $\pm$ 20%

6.3 Source of documents. This section is not applicable to this CID.

6.4 Ordering data. Ordering data shall be as specified in A-A-55500.

6.5 Commercial products. As part of the market analysis and research effort, this CID was coordinated with the following manufacturers (MFGR) of commercial products. At the time of CID preparation and coordination, these MFGRs 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 MFGRs or be used to restrict procurement to only the MFGRs shown.)

MFGR's CAGE

34899

MFGR's name and address

Fair-Rite Products Corporation  
One Commercial Row  
Walkill, NY 12589  
(914) 895-2055

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6.6 Part number (P/N) suppression data. This CID supersedes the following MFGR's P/Ns as shown. This information is being provided to assist in reducing proliferation in the government inventory system.

Dash number (see table I) AA55500/01-	MFGR CAGE	MFGR P/N <u>1/</u>
001	34899	<u>2/</u> 2743019447
002	34899	<u>2/ 3/</u> 2743021446
003	34899	<u>2/</u> 2743037447

- 1/ The MFGR'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.
- 2/ A "7" in the tenth digit of the manufacturer's part identification number indicates that the items are supplied in a taped and reel configuration. Taped and reel quantities are limited to exact multiples of 2,800 pieces. A "6" in the tenth digit indicates the items shall be provided as loose pieces. Quantities other than multiples of 2,800 pieces will be supplied as loose pieces. For this CID, tape and reel options should be specified in the ordering requirements (see A-A-55500, 6.2d).
- 3/ Manufacturer's part identification number specified above is a single piece part.

6.7 Government users. To acquire information on obtaining these surface mount shielding beads from the Government inventory system, contact Defense Electronics Supply Center, ATTN: DESC-EOP, 1507 Wilmington Pike, Dayton, OH 45444-5765, or telephone (513) 296-6656.

#### CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

Preparing Activity:

DLA-ES

Project 5950-D248