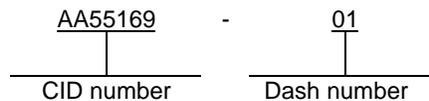


COMMERCIAL ITEM DESCRIPTION

FILTER, RADIO FREQUENCY INTERFERENCE

The General Services Administration has authorized the use of this commercial item description (CID) for all federal agencies as a replacement for Federal Specification W-F-2190/9.

1. **SCOPE.** This CID covers the general requirements for radio frequency interference (RFI) suppression power line filters. These filters consist of capacitors and inductors used in combination with each other and are provided with resistors as a safety feature. Filters covered by this CID are intended for commercial/industrial applications and should not be used in military systems needing stringent environmental and electrical requirements.
2. **CLASSIFICATION.** This CID uses a classification system which is included in the Part Identification Number (PIN) as shown in the following example (see 7.1).



3. SALIENT CHARACTERISTICS.

- 3.1 Interface and physical dimensions. Filters supplied to this CID shall be as specified herein (see figures 1 and 2).
- 3.2 Voltage rating. The voltage rating shall be 120 V ac at 60 Hz; 250 V ac at 50 Hz.
- 3.3 Operating frequency. The operating frequency shall be 50/60 Hz.
- 3.4 Current rating. The current rating shall be as specified in table I.
- 3.5 Operating ambient temperature range. The operating ambient temperature range shall be -10°C to +40°C at rated current.
- 3.6 Maximum leakage current, line-to-ground. The maximum leakage current, line-to-ground, shall be 0.5 mA at 120 V ac, 60 Hz; 1.0 mA at 250 V ac, 50 Hz.
- 3.7 Hipot rating (1 minute). The hipot rating shall be 2,250 V dc line-to-ground; 1,450 V dc line-to-line.
- 3.8 Insertion loss. Insertion loss is given for line-to-ground in a 50-ohm circuit. Values shall be as specified in table I.
- 3.9 Electrical schematic. The electrical schematic shall be as specified on figure 1.
- 3.10 Marking. Filters supplied to this CID shall be marked with the manufacturer's (MFR's) standard commercial PIN.

Beneficial comments recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be addressed to: Defense Supply Center, Columbus, ATTN: DSCC-VAT, Post Office Box 3990, Columbus, OH 43213-1199, or telephone (614) 692-0562, or facsimile (FAX) (614) 693-1644.

TABLE I. Current rating and insertion loss.

PIN AA55169-	Current rating	Minimum insertion loss (dB) Line-to-ground in 50 -ohm circuit					
		Frequency (MHz)					
		.15	.5	1	5	10	30
01	1 A	30	65	65	65	65	65
02	2 A	5	44	60	65	65	60
03	3 A	30	65	65	65	65	65
04	5 A	5	44	60	65	65	60
05	10 A	5	44	60	65	65	60

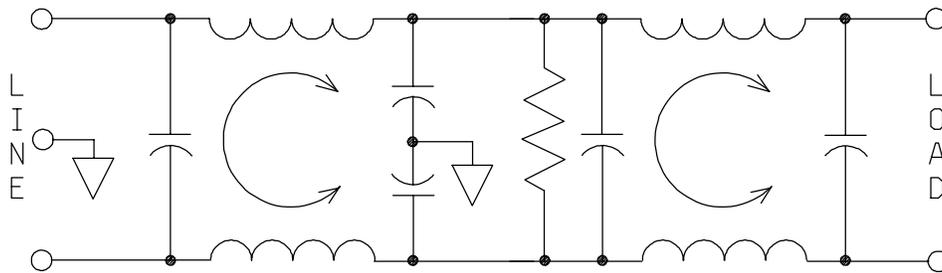
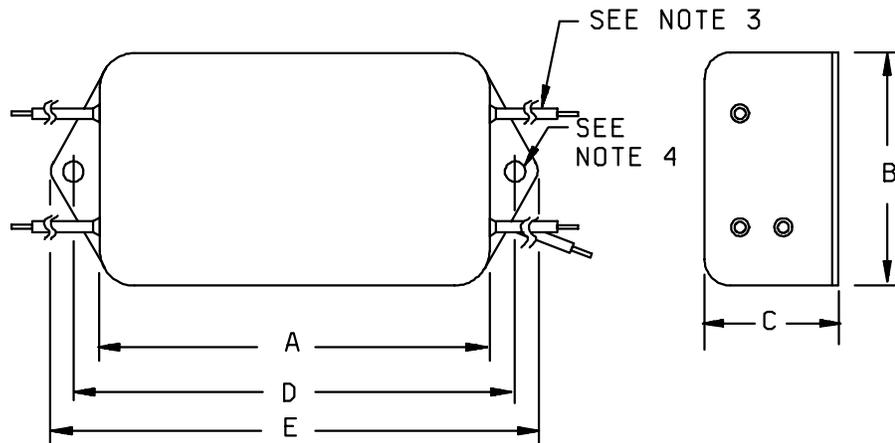


FIGURE 1. Electrical schematic.



PIN AA55169-	A (max)		B (max)		C (max)		D ±.015/±.38		E (max)	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
01	2.07	52.6	1.81	46.0	1.16	29.5	2.375	60.33	2.78	70.6
02	2.07	52.6	1.81	46.0	1.16	29.5	2.375	60.33	2.78	70.6
03	2.56	65.0	2.07	52.6	1.16	29.5	2.938	74.63	3.35	85.1
04	2.56	65.0	2.07	52.6	1.16	29.5	2.938	74.63	3.35	85.1
05	2.56	65.0	2.07	52.6	1.53	38.9	2.938	74.63	3.35	85.1

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Wire leads: (Four) Length 4.0 inches (101.6 mm) minimum; 18 AWG for -01 through -04, 16 AWG for -05.
4. Mounting holes: (Two) .188 inch (4.78 mm) diameter.
5. Metric equivalents are in parentheses.

FIGURE 2. Case configuration and dimensions.

4. REGULATORY REQUIREMENTS. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. PRODUCT CONFORMANCE PROVISIONS

5.1 Product conformance. The products provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order.

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 filters to DSCC under the Military Parts control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

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

7.4 Ordering data. The contract or order should specify the following:

- a. CID document number, revision, and CID PIN.
- b. Product conformance provisions.
- c. Packaging requirements.

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.)

<u>MFR's CAGE</u>	<u>MFR's name and address</u>
0S2B1	RME Filters, Incorporated P. O. Box 838 98 Route 101 A Amherst, NH 03031-0838
05245	CORCOM, Incorporated 844 East Rockland Road Libertyville, IL 60048
64135	Filter Concepts, Incorporated 2624 S. Rousselle Street Santa Ana, CA 92707

7.6 Part number (PIN) supersession data. This CID supersedes the following manufacturers' PIN's as shown. This information is being provided to assist in reducing proliferation in the government inventory system.

TABLE II. PIN supersession data.

PIN	MFR's CAGE 0S2B1	MFR's CAGE 64135	MFR's CAGE 05245
AA55169-	MFR's Commercial PIN <sup>1/</sup>		
01	RME-A-301-W	-----	1VR3
02	RME-A-302-W	-----	2VR3
03	RME-A-303-W	SF3 W	3VR3
04	RME-A-305-W	SF7 W	5VR3
05	RME-A-310-W	-----	10VR3

<sup>1/</sup> The manufacturer's PIN 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 3.11.

7.7 Government users. To acquire information on obtaining these filters from the Government inventory system, contact Defense Supply Center Columbus, ATTN: DSCC-VAT, Post Office Box 3990, Columbus, OH 43216-5000, telephone (614) 692-0562 or facsimile (614) 693-1644.

MILITARY INTERESTS:

Custodians:  
 Navy - EC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE  
 Preparing Activity:  
 DLA-CC  
 Project 5915-0407