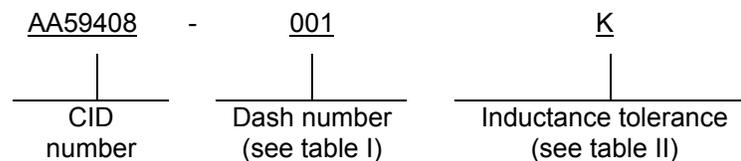


COMMERCIAL ITEM DESCRIPTION

COIL, RF, CHIP, FIXED, HIGH CURRENT, SURFACE MOUNT

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

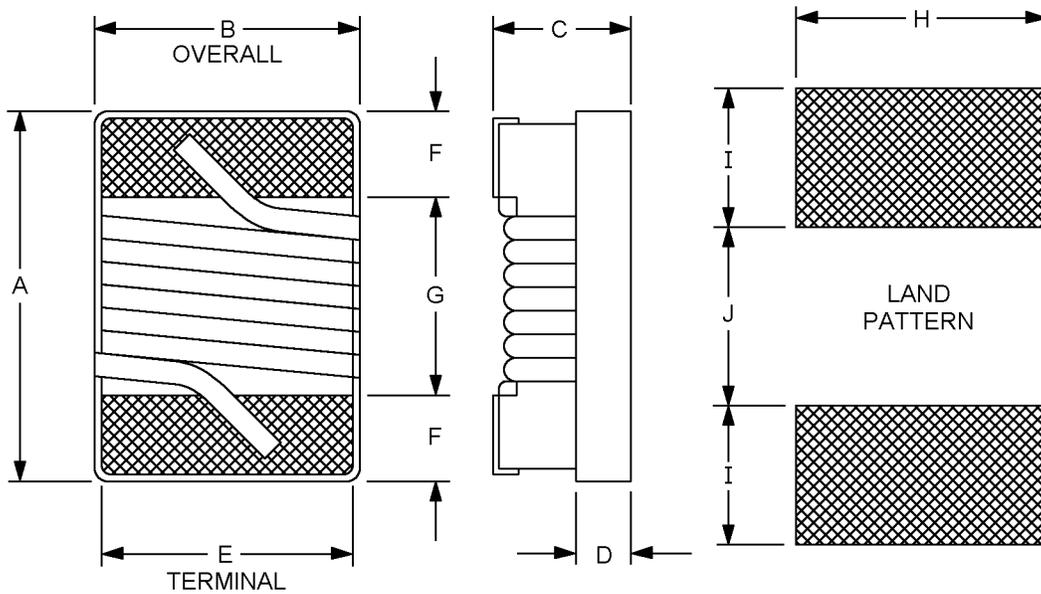
1. **SCOPE.** This CID covers the general requirements for a radio frequency coil. Coils covered by this CID are intended for commercial/industrial applications.
2. **CLASSIFICATION.** This CID uses a classification system which is included in the Part Identification Number (PIN) as shown in the following example (see 7.1).



3. SALIENT CHARACTERISTICS.

- 3.1 Interface and physical dimensions. Coils supplied to this CID shall be as specified herein. (see figure 1).
- 3.2 Electrical characteristics. The electrical characteristics shall be as specified in table I.
- 3.3 Weight. The weight shall be no greater than 0.5 gram maximum.
- 3.4 Operating temperature range. The operating temperature range is -40°C to +125°C.
- 3.5 Temperature rise. DC current rating for a 20°C rise.
- 3.6 Altitude. The maximum altitude is 70,000 feet.
- 3.7 Marking. Inductors supplied to this CID shall be marked with the manufacturer'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 43216-5000, or telephone (614) 692-0557, or facsimile (FAX) (614) 692-6939.



Dimension	INCHES	MM
A Max.	.071	1.80
B Max.	.044	1.12
C Max.	.040	1.02
D Ref.	.015	0.38
E	.030	0.76
F	.013	0.33
G	.034	0.86
H	.040	1.02
I	.025	0.64
J	.025	0.64

NOTES:

1. Dimensions are in Inches.
2. Metric equivalents are listed for general information only.

FIGURE 1. Configuration and dimensions.

TABLE I. Electrical characteristics.

CID dash number AA59408-	Inductance(nH)	Tolerance ($\pm\%$)	Q Min	900 MHz		1.7 GHz		SRF Min (MHz)	DCR Max (OHMS)	1/ I _{DC} MAX (mA)
				L Typ	Q Typ	L Typ	Q Typ			
001	1.6 @ 250 MHz	10, 5	24	1.67	49	1.65	63	12,500	0.030	2.4
002	3.6 @ 250 MHz	10, 5	24	3.65	70	3.75	90	5900	0.048	2.3
003	3.9 @ 250 MHz	10, 5	25	3.74	70	3.90	90	5900	0.054	2.2
004	6.8 @ 250 MHz	10, 5	35	6.72	70	7.10	75	5800	0.054	2.1
005	7.5 @ 250 MHz	10, 5	38	7.33	70	7.90	68	3700	0.059	2.1
006	10 @ 250 MHz	10, 5, 2	38	9.70	73	10.5	57	3700	0.071	2.0
007	12 @ 250 MHz	10, 5, 2	38	12.3	68	14.5	41	3000	0.075	2.0
008	15 @ 250 MHz	10, 5, 2	38	15.5	65	17.6	40	2800	0.080	1.9
009	18 @ 250 MHz	10, 5, 2	40	19.5	62	25.0	40	2800	0.099	1.9
010	22 @ 250 MHz	10, 5, 2	42	24.0	61	31.5	26	2400	0.099	1.8
011	24 @ 250 MHz	10, 5, 2	42	25.8	55	35.0	21	2400	0.105	1.8

1/ DC current rating for a 20°C rise.

TABLE II. Inductance tolerances

Code	Tolerance (percentage)
K	± 2
M	± 5
N	± 10

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.

5.2 Market acceptance. The following market acceptance criteria are necessary to document the quality of the product to be provided under this CID:

- a. The company producing the item must have been producing a product meeting the requirements of this CID for at least 2 years.

- b. The company must have sold 1,000 units meeting this CID in the commercial marketplace over the past 2 years.

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

7.3 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.

7.4 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>
02113	Coilcraft Inc 1102 Silver Lake Road Cary, Illinois 60013-1658 Phone number (847) 639-2361 Uniform Resource Locator (URL): www.coilcraft.com

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

TABLE III. P/N supersession data. 1/

CID dash number (see table I) AA59408-	Vendor commercial PIN 2/ CAGE 02113
001*	0603HC-1N6*B*
002*	0603HC-3N6*B*
003*	0603HC-3N9*B*
004*	0603HC-6N8*B*
005*	0603HC-7N5*B*
006*	0603HC-10N*B*
007*	0603HC-12N*B*
008*	0603HC-15N*B*
009*	0603HC-18N*B*
010*	0603HC-22N*B*
011*	0603HC-24N*B*

- 1/ When "*" is used for coded values, it's the contractors responsibility to select those options allowed by the CID.
- 2/ 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 P/N shown.

7.6 Government users. To acquire information on obtaining these coils from the Government inventory system, contact Defense Supply Center, Columbus, ATTN: DSCC-CPAA, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-7741.

MILITARY INTERESTS:

Custodians:
Navy - EC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

Preparing Activity:

DLA - CC

Project 5950-1161