[INCH-POUND]
A-A-59714/1A
14 July 2003
SUPERSEDING
A-A-59714/1
15 April 2002

COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

RESISTOR, THERMAL, NON-LINEAR THERMISTOR (RESETTABLE FUSE) RADIAL LEADED, STYLE RUE

The General Services Administration has authorized the use of this Commercial Item Description (CID) for all agencies.

The complete requirements for procuring the low resistance, high hold current, resettable fuse device described herein shall consist of this document and the issue in effect of CID A-A-59714.

CLASSIFICATION. This CID uses a classification system that is included in the Part Identification Number (PIN) as shown in the following example (see notes).

AA59714	01	-001
CID number	Applicable CID sheet (two digits)	Dash number (see applicable CID sheet)

SALIENT CHARACTERISTICS

Interface and physical dimensions. The resistors supplied to this CID shall meet the interface and physical dimensions as specified herein (see figure 1).

Power dissipation. The power dissipation shall be as specified in table I.

Voltage rating. The voltage rating shall be 30 V (max).

Hold current. The hold current shall be as specified in table I.

Trip current. The trip current shall be as specified in table I.

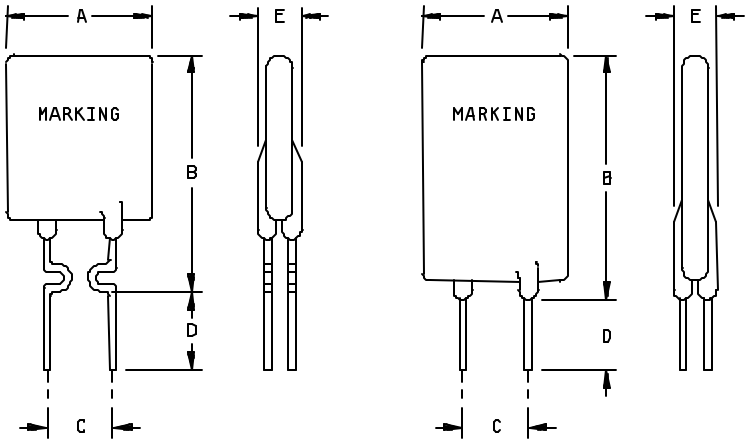
Resistance. The maximum and minimum resistance shall be as specified in table I.

Post trip resistance. The post trip resistance shall be as specified in table I.

Operating ambient temperature. The operating ambient temperature range shall be -40°C to +85°C.

Marking. Thermistors supplied to this CID shall be marked with the manufacturer's standard commercial PIN.

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.



SEE NOTE 2

Dash number	Dimensions					
	A (max)	B (max)	C (min)	C (max)	D (min)	E (max)
001	0.29 (7.4)	0.48 (12.2)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
002	0.29 (7.4)	0.56 (14.2)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
003	0.35 (8.9)	0.53 (13.5)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
004	0.35 (8.9)	0.60 (15.2)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
005	0.40 (10.2)	0.62 (15.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
006	0.45 (11.4)	0.72 (18.3)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
007	0.45 (11.4)	0.65 (16.5)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
008	0.55 (14.0)	0.76 (19.3)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
009	0.55 (14.0)	0.95 (24.1)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
010	0.65 (16.5)	0.95 (24.1)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
011	0.75 (19.1)	1.02 (25.9)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
012	0.85 (21.6)	1.12 (28.4)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
013	0.95 (24.1)	1.14 (29.0)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
014	0.29 (7.4)	0.46 (11.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
015	0.29 (7.4)	0.56 (14.2)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
016	0.35 (8.9)	0.50 (12.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
017	0.35 (8.9)	0.57 (14.4)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
018	0.40 (10.2)	0.60 (15.2)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
019	0.45 (11.4)	0.69 (17.5)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
020	0.45 (11.4)	0.71 (18.3)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
021	0.55 (14.0)	0.84 (21.3)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
022	0.55 (14.0)	1.01 (25.6)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
023	0.65 (16.5)	1.03 (26.2)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
024	0.75 (19.1)	1.09 (27.7)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
025	0.85 (21.6)	1.19 (30.2)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
026	0.95 (24.1)	1.22 (31.0)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)

NOTES:
1. Millimeters are in parenthesis.
2. Dash numbers 001 to 006 and 020 to 026 are kinked leads, and 007 to 019 are straight leads.

FIGURE 1. Case dimensions and configuration.

TABLE I. Rating and characteristics.

CID dash number		Hold current (amps)	Trip current (amps)	Power dissipation (watts)	Resistance (ohms) (min)	(max)	Post trip resistance (ohms)
001	014	0.90	1.80	0.6	0.070	0.12	0.22
002	015	1.10	2.20	0.7	0.070	0.10	0.17
003	016	1.35	2.70	0.8	0.040	0.08	0.13
004	017	1.60	3.20	0.9	0.030	0.07	0.11
005	018	1.85	3.70	1.0	0.030	0.06	0.90
006	019	2.50	5.00	1.2	0.020	0.04	0.70
007	020	3.00	6.00	2.0	0.020	0.05	0.08
008	021	4.00	8.00	2.5	0.010	0.03	0.05
009	022	5.00	10.00	3.0	0.010	0.03	0.05
010	023	6.00	12.00	3.5	0.005	0.02	0.04
011	024	7.00	14.00	3.8	0.005	0.02	0.03
012	025	8.00	16.00	4.0	0.005	0.02	0.02
013	026	9.00	18.00	4.2	0.005	0.01	0.02

NOTES.

The PIN should be used for Government purposes to buy commercial products to this CID. See classification information for PIN format example.

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

Source of documents.

Commercial Item Description

A-A-59714 - Resistors, Thermal, Non-Linear Thermistor, (Resettable Fuses), General Requirements for.

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

Ordering data. Ordering data is as specified in A-A-59714.

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).

TABLE II. Commercial products.

CID PIN	MFR's CAGE	MFR's name and address
AA5971401-***	06090	Tyco Electronics/Raychem Circuit Protection 308 Constitution Drive M/S R21 2A Menlo Park, CA 94025
AA5971401-***	32997	Bourns, Incorporated Circuit Protection Division 1200 Columbia Avenue Riverside, CA 92507-2114
AA5971401-***	0JR59	Wickmann USA, Inc. 4100 Shirley Drive SW Atlanta, GA 30336

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

TABLE III. P/N supersession data.

CID dash number AA5971401-	MFR's CAGE	MFR's P/N 1/		CID dash number AA5971401-	MFR's CAGE	MFR's P/N 1/
001		RUE090		014		RUE090S
002		RUE110		015		RUE110S
003		RUE135		016		RUE135S
004		RUE160		017		RUE160S
005		RUE185		018		RUE185S
006		RUE250		019		RUE250S
007	06090	RUE300		020	06090	RUE300K
008		RUE400		021		RUE400K
009		RUE500		022		RUE500K
010		RUE600		023		RUE600K
011		RUE700		024		RUE700K
012		RUE800		025		RUE800K
013		RUE900		026		RUE900K
001		MF-R090-2-9-14		014		MF-R090-2-9
002		MF-R110		015		MF-R110-2-17
003		MF-R135		016		MF-R135-2-17
004		MF-R160		017		MF-R160-2-17
005		MF-R185		018		MF-R185-2-17
006		MF-R250-2-10		019		MF-R250-2-10-17
007	32997	MF-R300		020	32997	MF-R300-2-14
008		MF-R400		021		MF-R400-2-14
009		MF-R500		022		MF-R500-2-14
010		MF-R600		023		MF-R600-2-14
011		MF-R700		024		MF-R700-2-14
012		MF-R800		025		MF-R800-2-14
013		MF-R900		026		MF-R900-2-14
001		RLD30P090U		020		RLD30P300U
002		RLD30P110U		021		RLD30P400U
003		RLD30P135U		022		RLD30P500U
004	0JR59	RLD30P160U		023	0JR59	RLD30P600U
005		RLD30P185U		024		RLD30P700U
006		RLD30P250U		025		RLD30P800U
				026		RLD30P900U

1/ The manufacturers 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.

Government users. To acquire information on obtaining these resistors from the Government inventory system, Defense Supply Center, Columbus, ATTN: DSCC-CPB, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-7678.

MILITARY INTERESTS:

Custodians:
Navy - EC
DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

Preparing activity:

DLA - CC

Project 5905-1692-01