

[INCH-POUND]
A-A-59714/2C
2 September 2025
SUPERSEDING
A-A-59714/2B
5 October 2020

COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

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

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

The complete requirements for procuring fixed wirewound power type resistor described herein shall consist of this document and the issue in effect of [A-A-59714](#).

CLASSIFICATION OR PART IDENTIFICATION NUMBER (PIN). This commercial item description (CID) specification sheet uses a classification system which is included in the PIN as shown in the following example (see [NOTES](#)).

AA59714	02	-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 specification sheet shall be 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 60 V (max) for dash numbers 001, 002, 018, 019, and 035 thru 064; and 72V (max) for dash numbers 003 thru 017, and 020 thru 034.

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](#).

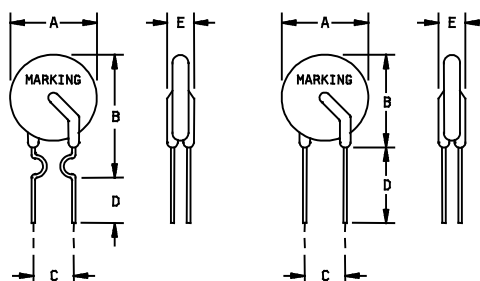
Operating ambient temperature. The operating ambient temperature range shall be -40°C to +85°C.

Comments, suggestion, or questions on this document should be address to: DLA Land and Maritime, ATTN: VAT, Post Office Box 3990, Columbus, OH 432186-3990, emailed to Resistor@dla.mil. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <https://assist.dla.mil>.



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Marking. Thermistors supplied to this CID specification sheet shall be marked as specified in [A-A-59714](#).



SEE NOTE 2

Dash number		Dimensions					
		A (max)	B (max)	C (min)	C (max)	D (min)	E (max)
001		0.29 (7.4)	0.50 (12.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
002		0.29 (7.4)	0.50 (12.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
003	035	0.29 (7.4)	0.50 (12.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
004	036	0.29 (7.4)	0.50 (12.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
005	037	0.29 (7.4)	0.53 (13.4)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
006	038	0.30 (7.6)	0.54 (13.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
007	039	0.31 (7.9)	0.54 (15.2)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
008	040	0.38 (9.7)	0.60 (15.2)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
009	041	0.41 (10.4)	0.63 (16.0)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
010	042	0.46 (11.7)	0.66 (16.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
011	043	0.50 (13.0)	0.69 (17.5)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
012	044	0.57 (14.5)	0.75 (19.1)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
013	045	0.64 (16.3)	0.82 (20.8)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
014	046	0.69 (17.5)	0.88 (22.4)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
015	047	0.82 (20.8)	1.00 (25.4)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
016	048	0.94 (23.9)	1.13 (28.6)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
017	049	1.07 (27.2)	1.25 (31.8)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
018		0.35 (8.9)	0.50 (12.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
019		0.35 (8.9)	0.50 (12.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
020	050	0.35 (8.9)	0.50 (12.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
021	051	0.35 (8.9)	0.50 (12.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
022	052	0.29 (7.4)	0.53 (13.4)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
023	053	0.30 (7.6)	0.54 (13.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
024	054	0.31 (7.9)	0.54 (13.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
025	055	0.38 (9.7)	0.60 (15.2)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
026	056	0.41 (10.4)	0.63 (16.0)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
027	057	0.46 (11.7)	0.66 (16.7)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
028	058	0.51 (13.0)	0.72 (18.2)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
029	059	0.57 (14.5)	0.78 (19.8)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
030	060	0.64 (16.3)	0.85 (21.6)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
031	061	0.70 (17.8)	0.91 (23.0)	0.17 (4.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.0)
032	062	0.84 (21.3)	1.03 (26.2)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
033	063	0.98 (24.9)	1.18 (30.0)	0.37 (9.4)	0.43 (10.9)	0.30 (7.6)	0.12 (3.0)
034	064	1.12 (28.4)	1.32 (33.5)	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 010, 028 to 034, and 058 to 064 are kinked leads, and 011 to 027, and 043 to 057, 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 (watt)	Resistance (ohms) (min) (max)		Post trip resistance (ohms)
001	018			0.10	0.20	0.38	2.50	4.50	7.50
002	019			0.17	0.34	0.48	2.00	5.21	8.00
003	020	035	050	0.20	0.40	0.40	1.50	2.84	4.40
004	021	036	051	0.25	0.50	0.45	1.00	1.95	3.00
005	022	037	052	0.30	0.60	0.50	0.76	1.36	2.10
006	023	038	053	0.40	0.80	0.55	0.52	0.86	1.29
007	024	039	054	0.50	1.00	0.75	0.41	0.77	1.17
008	025	040	055	0.65	1.30	0.90	0.27	0.48	0.72
009	026	041	056	0.75	1.50	0.90	0.18	0.40	0.60
010	027	042	057	0.90	1.80	1.00	0.14	0.31	0.47
011	028	043	058	1.10	2.20	1.50	0.15	0.25	0.38
012	029	044	059	1.35	2.70	1.70	0.12	0.19	0.30
013	030	045	060	1.60	3.20	1.90	0.09	0.14	0.22
014	031	046	061	1.85	3.70	2.10	0.08	0.12	0.19
015	032	047	062	2.50	5.00	2.50	0.05	0.08	0.13
016	033	048	063	3.00	6.00	2.80	0.04	0.06	0.10
017	034	049	064	3.75	7.50	3.20	0.03	0.05	0.08

NOTES.

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

Source of documents.

Commercial Item Description

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

(Copies of these documents are available online at <https://quicksearch.dla.mil/>.)

Commercial products. As part of the market analysis and research effort, this CID specification sheet was coordinated with the following manufacturers of commercial products. At the time of CID specification sheet preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID specification sheet. (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>
75915	Littelfuse 6133 North River Road, Suite 500 Rosemont, IL 60018 Ph: 773-628-1000 Website: https://www.littelfuse.com
32997	Bourns, Incorporated Circuit Protection Division 1200 Columbia Avenue Riverside, CA 92507-2129 Phone: 951-781-5500 Ext. 2778 Email: americus@bourns.com Website: https://www.bourns.com

Part number (P/N) supersession data. This CID specification sheet PINs supersedes the following manufacturers P/N as shown in [table II](#). This information is being provided to assist in reducing proliferation in the Government inventory system.

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TABLE II. P/N supersession data.

CID dash number AA5971402-		MFR's CAGE	MFR's P/N ^{1/}	CID dash number AA5971402-		MFR's CAGE	MFR's P/N ^{1/}
001		75915	RXEF010	018		75915	RXEF010S
002			RXEF017	019			RXEF017S
003	035		RXEF020	020	050		RXEF020S
004	036		RXEF025	021	051		
005	037		RXEF030	022	052		RXEF030S
006	038		RXEF040	023	053		RXEF040S
007	039		RXEF050	024	054		RXEF050S
008	040		RXEF065	025	055		RXEF065S
009	041		RXEF075	026	056		RXEF075S
010	042		RXEF090	027	057		RXEF090S
011	043		RXEF110	028	058		RXEF110K
012	044		RXEF135	029	059		RXEF135K
013	045		RXEF160	030	060		RXEF160K
014	046		RXEF185	031	061		RXEF185K
015	047		RXEF250	032	062		RXEF250K
016	048		RXEF300	033	063		RXEF300K
017	049		RXEF375	034	064		RXEF375K
001		32997	MF-R010	018		32997	MF-R010-2-17
002			MF-R017	019			MF-R017-2-17
035			MF-R020	050			MF-R020-2-17
036			MF-R025	051			MF-R025-2-17
037			MF-R030	052			MF-R030-2-17
038			MF-R040	053			MF-R040-2-17
039			MF-R050	054			MF-R050-2-17
040			MF-R065	055			MF-R065-2-17
041			MF-R075	056			MF-R075-2-17
042			MF-R090	057			MF-R090-2-17
043			MF-RX110/72	058			MF-RX110/72-2-14
044			MF-RX135/72	059			MF-RX135/72-2-14
045			MF-RX160/72	060			MF-RX160/72-2-14
046			MF-RX185/72	061			MF-RX185/72-2-14
047			MF-RX250/72	062			MF-RX250/72-2-14
048			MF-RX300/72	063			MF-RX300/72-2-14
049			MF-RX375/72	064			MF-RX375/72-2-14

^{1/} The manufacturers P/N shall not be used for procurement to the requirements of this CID specification sheet, At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see paragraph 3.7 of [A-A-59714](#).

National Stock Number. This section is not applicable to this CID specification sheet.

Changes from previous issue. The margins of this CID specification sheet are marked with a vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

MILITARY INTERESTS:

Custodians:
Navy - EC
DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FAS

Preparing activity:

DLA - CC

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