

[INCH-POUND]  
A-A-55534/7D  
7 July 2023  
SUPERSEDING  
A-A-55534/7C  
28 June 2018

COMMERCIAL ITEM DESCRIPTION  
SPECIFICATION SHEET

RESISTOR, FIXED, CHIP, METAL ELEMENT,  
(POWER TYPE), VERY LOW VALUES,  
STYLE VLV2010

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

Inactive for new design after 28 June 2018.  
For replacement purposes only. For new design use  
DLA Land and Maritime drawing [06010](#).

The complete requirements for procuring of a fixed, chip, metal element resistor described herein shall  
consist of this document and the issue in effect of [A-A-55534](#).

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](#)).

AA55534/07-R010FB

AA55534 - Abbreviated CID number  
/07- - Applicable CID sheet (two digits)  
R010 - Resistance value  
F - Resistance tolerance  
B - Termination finish

NOTE: This PIN has been derived in accordance with [A-A-55534](#).

SALIENT CHARACTERISTICS.

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

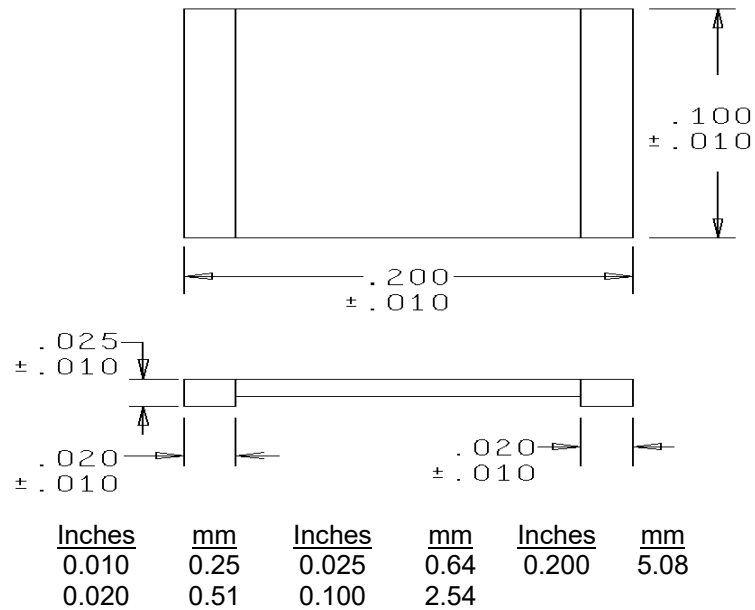
Resistance value. The resistance value shall be 0.007 ohms to 0.500 ohms.

Comments, suggestions, or questions on this document should be addressed to DLA Land and Maritime  
ATTN: VAT, Post Office Box 3990, Columbus, OH 43218-3990, or emailed to [Resistor@dla.mil](mailto: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>

AMSC N/A  
DISTRIBUTION STATEMENT A. Approved for public release, distribution is unlimited.



# A-A-55534/7D



## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. The picturization of the style above is given as representative of the envelope of the item. Slight deviations from the outline shown, which are contained within the envelope and do not alter the functional aspects of the device, are acceptable.

FIGURE 1. Resistors, fixed, chip, metal element, (style VLV2010).

Resistance tolerance. This style resistor is available in resistance tolerances F ( $\pm 1$  percent), H ( $\pm 3$  percent), and J ( $\pm 5$  percent).

Termination finish. The termination finish shall be identified by a single letter, B for tin/lead (Sn/Pb) (3 percent lead minimum) or T (Sn) (100 percent tin).

Power rating. The power rating shall be 0.5 watt at  $+70^{\circ}\text{C}$ . The power rating shall be linearly derated to zero at  $+150^{\circ}\text{C}$  or  $+175^{\circ}\text{C}$  (see [Commercial products](#)).

Temperature coefficient. The temperature coefficient of resistance shall not exceed  $\pm 400$  ppm/ $^{\circ}\text{C}$  from  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$  or  $+175^{\circ}\text{C}$ .

Marking. Resistors supplied to this CID specification sheet shall be marked with the manufacturer's standard commercial PIN. Marking of individual small devices (e.g. chips) is not required but is permitted; however, each unit pack supplied to this CID shall be marked with the commercial item description PIN.

## NOTES.

PIN. The PIN should be used for Government purposes to buy commercial products to this CID specification sheet. See [Classification](#) section for PIN format.

Source of documents.

## Commercial Item Description

[A-A-55534](#)

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Resistor, Fixed, Power Type (Very Low Resistance Values), General Requirements For

(Copies of commercial item descriptions 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>                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 91637             | <p>Dale Electronics, Incorporated<br/>1122 23<sup>rd</sup> St.<br/>Columbus, NE 68601-0609</p> <p>Dale Israel, Ltd.<br/>Emek-Sara Industrial Zone<br/>3, Ha'Kotzer str.<br/>Be'er Sheva, Israel 84 874</p> <p>Phone: 402-563-6866<br/>Fax: 402-563-6296<br/>Email: <a href="mailto:business-americas@vishay.com">business-americas@vishay.com</a><br/>Website: <a href="http://www.vishay.com">www.vishay.com</a></p> |
| 57027             | <p>TT Electronics / IRC<br/>4222 S. Staples St.<br/>Corpus Christi, TX 78411-2702</p> <p>Phone: 972-323-2200<br/>Email: <a href="http://www.ttelectronics.com/">http://www.ttelectronics.com/</a><br/>Website: <a href="http://www.ttelectronics.com">www.ttelectronics.com</a></p>                                                                                                                                   |

Part number (P/N) supersession data. This CID specification sheet PINs supersedes the MFR's as shown. This information is being provided to assist in reducing proliferation in the Government inventory system.

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| CID PIN          | MFGR's CAGE | MFGR's P/N<br>1/ | MFGR's SALIENT CHARACTERISTICS                                                                                                                                                                                                                                                                                                            |
|------------------|-------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AA55534/07-***** | 91637       | WSL 2010         | Resistance value<br>0.007 ohms to 0.500 ohms,<br>temp coefficient $\pm 75$ ppm/ $^{\circ}$ C,<br>Derated to zero at +175 $^{\circ}$ C.<br>Resistance tolerance - F, H, and J.                                                                                                                                                             |
| AA55534/07-***** | 57027       | LR2010           | Resistance value<br>0.050 ohms to 0.500 ohms,<br>temp coefficient $\pm 100$ ppm/ $^{\circ}$ C;<br>0.020 ohms to 0.049 ohms,<br>temp coefficient $\pm 300$ ppm/ $^{\circ}$ C;<br>0.010 ohms to 0.019 ohms,<br>temp coefficient $\pm 400$ ppm/ $^{\circ}$ C;<br>Derated to zero at +175 $^{\circ}$ C.<br>Resistance tolerance - F, H, and J |

1/ The manufacturers P/N shall not be used for acquisition 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 the marking paragraph of [A-A-55534](#).

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

Changes from previous issue. The margins of this CID are marked with a vertical line 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:

Custodian  
Navy - EC  
DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FAS

Preparing Activity:

DLA - CC

Project 5905-2023-024

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.