

[INCH-POUND]
A-A-55541/1B
27 December 2004
SUPERSEDING
A-A-55541/1A
15 July 1999

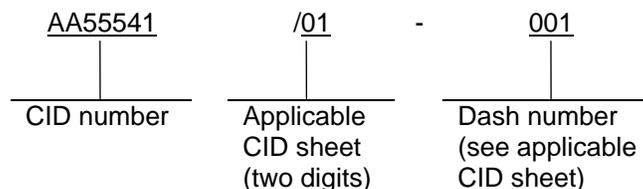
COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

PASSIVE DELAY LINE, 10 TAP, 10 TO 200 NANOSECONDS

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

SCOPE. This CID covers the general requirements for a 10 tap 10 to 200 nanoseconds passive delay lines. Passive delay lines covered by this CID are intended for commercial/industrial applications.

CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN). This CID uses a classification system which is included in the Part Identification Number (PIN) as shown in the following example (see NOTES).



SALIENT CHARACTERISTICS.

Interface and physical dimensions. Passive delay lines supplied to this CID shall be as specified herein (see figure 1).

Electrical characteristics. Electrical characteristics shall be as specified in table I.

Operating temperature: -55°C to +125°C.

Lead material: Tin plated or solder dipped.

Distortion: ±15% maximum.

Delay time variation with temperature: 100 ppm/°C maximum.

Attenuation (%): See table I.

Nominal characteristic impedance: See table I.

Insulation resistance: 10k megohms minimum @ 50 Vdc.

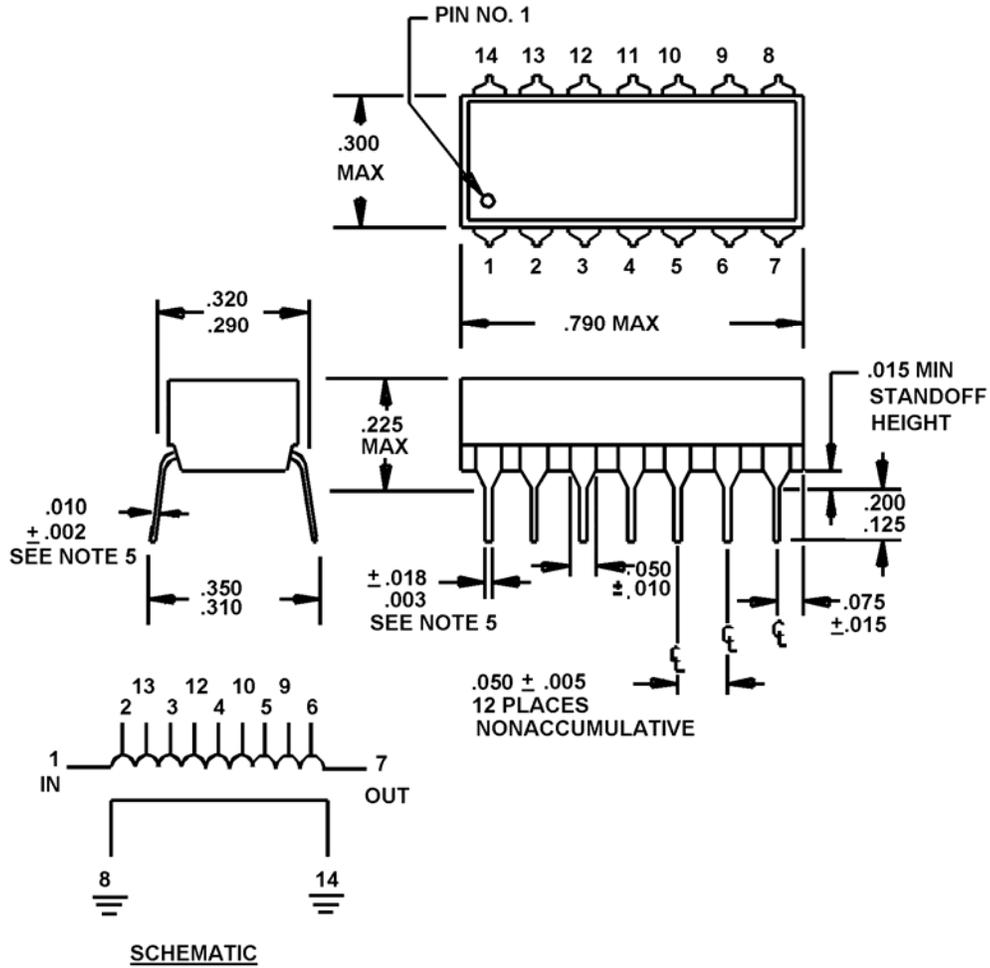
Pulse width: 2.5 times output rise time.

AMSC N/A

FSC 5999

Tap accuracy and total accuracy: ± 1.5 ns or 5% whichever is greater.

Marking. Passive delay lines supplied to this CID shall be marked with the manufacturer's (MFR) standard commercial PIN.



Inches	mm	Inches	mm
0.002	0.05	0.200	5.08
0.003	0.08	0.225	5.72
0.010	0.25	0.290	7.37
0.015	0.38	0.300	7.62
0.018	0.46	0.310	7.87
0.050	1.27	0.320	8.13
0.075	1.91	0.350	8.89
0.125	3.18	0.790	20.07

FIGURE 1. Case and mounting dimensions.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Location and shape of standoffs are optional. Standoff height shall be as indicated.
4. Pin 11 is not connected.
5. Terminal dimensions are prior to hot solder dip.
6. Schematic is for general information only.
7. Leads shall be free of case meniscus and other foreign material and shall be solderable for a minimum of 0.010 above the seating plane of the delay line.

FIGURE 1. Case and mounting dimensions - continued.

TABLE I. Electrical characteristics.

AA55541/01-	Total Delay (ns)	Tap Delay (ns)	Rise Time (ns-Max.)	Impedance (Ohms) \pm 10%	Attenuation (%)
001	10	1.0	2.5	50	6
002	12.5	1.2	3.13	50	6
003	20	2.0	5.0	50	6
004	25	2.5	6.25	50	6
005	50	5.0	12.5	50	6
006	100	10.0	25.0	50	8
007	200	20.0	50.0	50	15
008	10	1.0	2.5	100	5
009	12.5	1.2	3.13	100	5
010	20	2.0	5.0	100	5
011	25	2.5	6.25	100	5
012	50	5.0	12.5	100	5
013	100	10.0	25.0	100	8
014	200	20.0	50.0	100	10

REGULATORY REQUIREMENTS. This section is not applicable to this CID sheet.

PRODUCT CONFORMANCE PROVISIONS. Product conformance provisions shall be as specified in A-A-55541.

PACKAGING. Packaging shall be as specified in A-A-55541.

NOTES.

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

Ordering data. Ordering data shall be as specified in A-A-55541.

A-A-55541/1B

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>MFGR's CAGE</u>	<u>MFGR's name and address</u>
22519	Data Delay Devices, Incorporated 3 Mount Prospect Avenue Clifton, NJ 07013-1915 Phone: (201) 773-2299
50965	Princeton Advanced Components, Incorporated 860 State Road Princeton, NJ 08540 Phone: (609) 924-2444
90095	Pulse Components Division A Technitrol Company 2 Pearl Buck Court Bristol, PA 19007-6812 (215) 781-6400

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

TABLE II. P/N supersession data.

CID Dash number (see table I)	Vendor commercial P/N ^{1/}	Vendor commercial P/N ^{1/}	Vendor commercial P/N ^{1/}
AA55541/1-	MFGR's CAGE 22519	MFGR's CAGE 50965	MFGR's CAGE 90095
001	1520-Z860-1	4601	LB10D7
002	1520-Z860-2	4602	LB10E7
003	1520-Z860-3	4603	LB10F7
004	1520-Z860-4	4604	LB10G7
005	1520-Z860-5	4605	LB10K7
006	1520-Z860-6	4606	LB10M7
007	1520-Z860-7	4607	LB10Q7
008	1520-Z860-8	4608	LF10D7
009	1520-Z860-9	4609	LF10E7
010	1520-Z860-10	4610	LF10F7
011	1520-Z860-11	4611	LF10G7
012	1520-Z860-12	4612	LF10K7
013	1520-Z860-13	4613	LF10M7
014	1520-Z860-14	4614	LF10Q7

^{1/} 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 PIN shown.

MILITARY INTERESTS

Custodians:
 Army - CR
 Navy - EC
 Air Force - 11
 DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS
 Preparing Activity:
 DLA - CC
 Project 5999-0400

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 ASSIST Online database at <http://assist.daps.dla.mil/>.