

INCH-POUND

MS75093B  
01 August 2013  
SUPERSEDING  
MS75093A  
26 July 2006

DETAIL SPECIFICATION SHEET

ADAPTER, CONNECTOR, SERIES BNC SOCKET CONTACT  
TO GR-874 HERMORPHRODITIC

Inactive for new design after 15 June 1999.

This specification is approved for use by all Departments  
and Agencies of the Department of Defense

The requirements for acquiring the product described herein shall  
consist of this specification sheet and [MIL-DTL-27434](#).

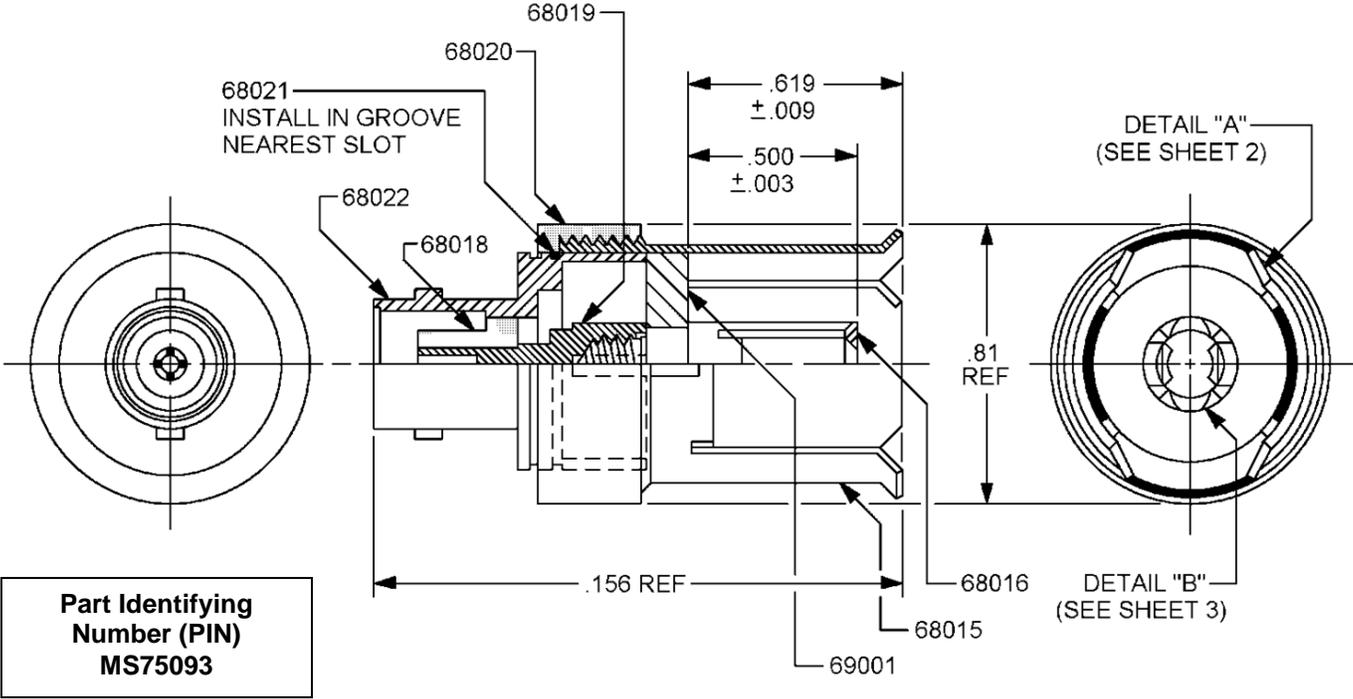


FIGURE 1. General configuration, interface dimensions and test pin.

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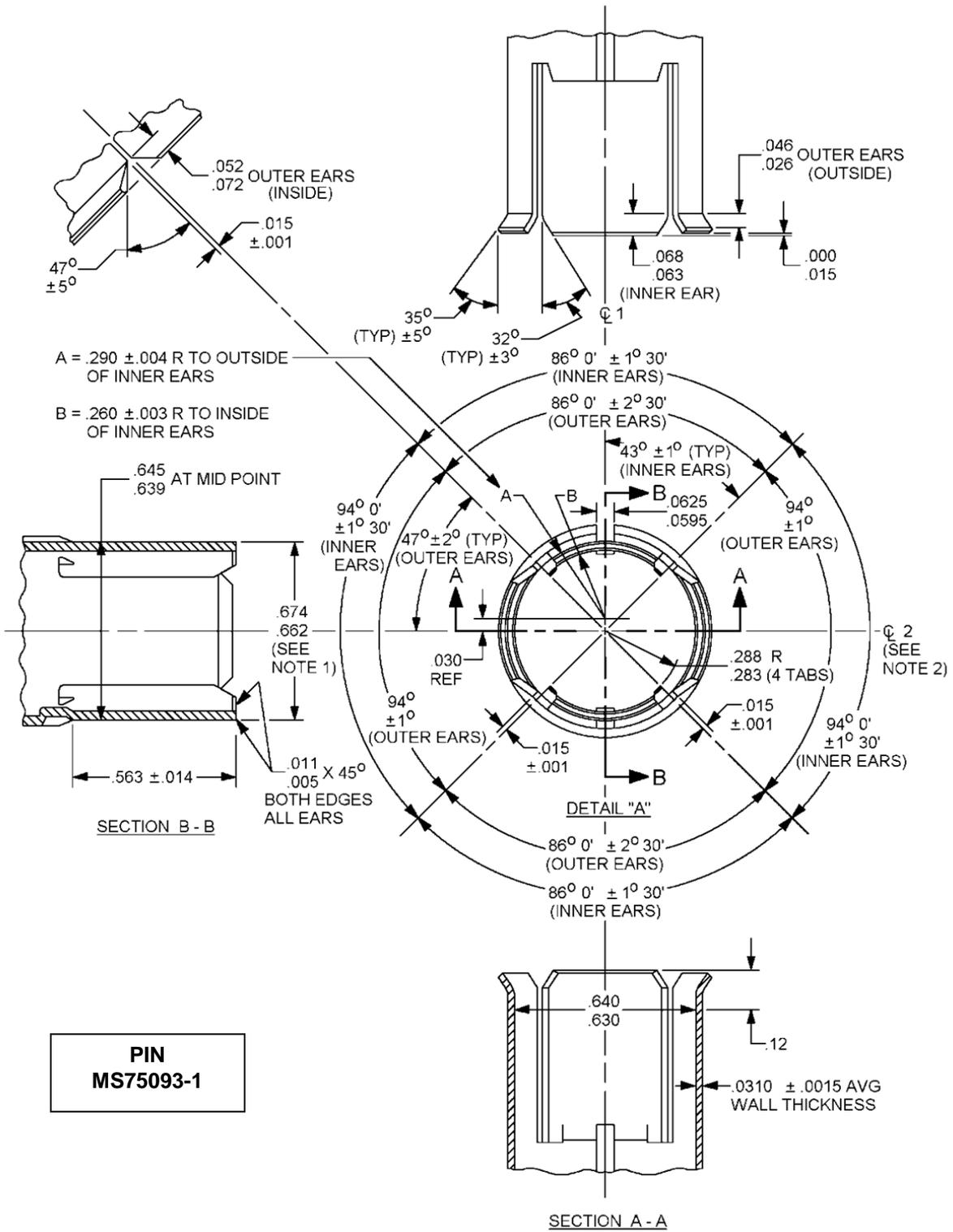


FIGURE 1. General configuration, interface dimensions and test pin - Continued

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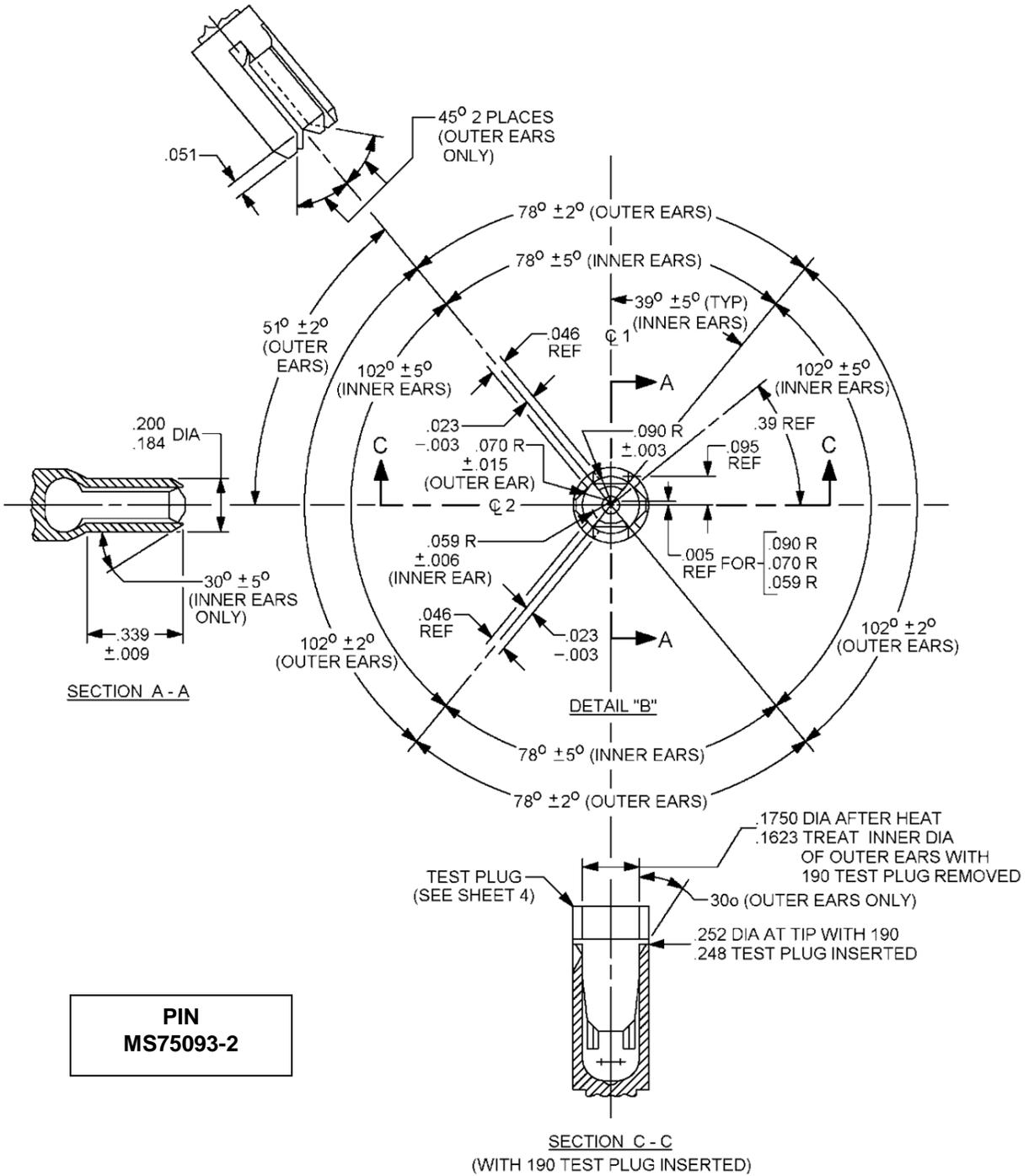


FIGURE 1. General configuration, interface dimensions and test pin - Continued

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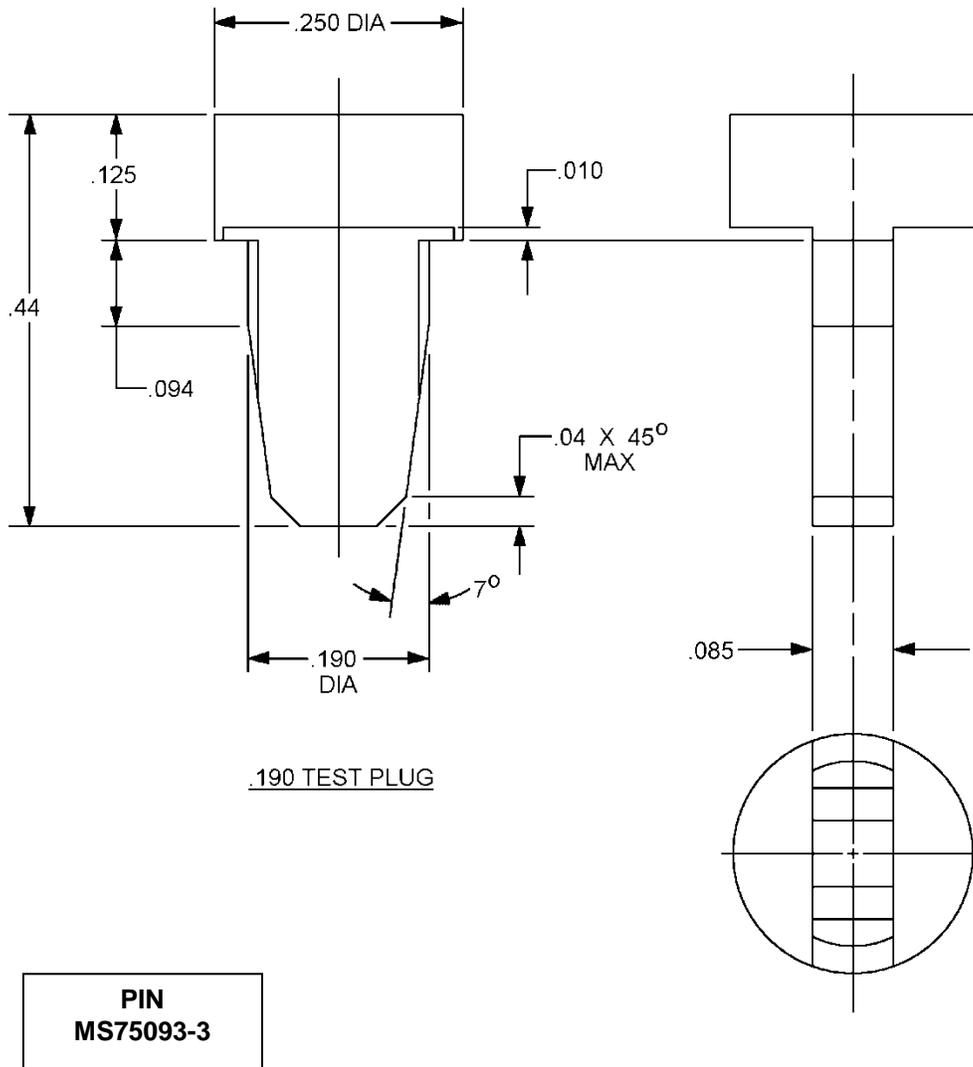


FIGURE 1. General configuration, interface dimensions and test pin - Continued

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.031	0.79	.094	2.39	.290	7.37
.0015	0.04	.04	1.0	.12	3.05	.339	8.61
.003	0.08	.046	1.17	.125	3.17	.44	11.18
.004	0.10	.051	1.30	.1623	4.12	.500	12.70
.005	0.13	.052	1.32	.1750	4.45	.563	14.30
.006	0.15	.059	1.50	.184	4.67	.619	15.72
.009	0.23	.0595	1.51	.190	4.83	.630	16.00
.010	0.25	.0625	1.59	.200	5.08	.639	16.23
.011	0.28	.063	1.60	.248	6.30	.640	16.26
.014	0.36	.068	1.73	.250	6.35	.645	16.38
.015	0.38	.070	1.78	.252	6.40	.662	16.81
.023	0.58	.072	1.83	.260	6.60	.674	17.12
.026	0.66	.085	2.16	.280	7.11	.81	20.57
.030	0.76	.090	2.29	.288	7.32	1.56	39.62

NOTES:

1. To be concentric to center line within .003 inch.
2. Piece is symmetrical about center line 1 and center line 2.
3. Unless otherwise specified tolerances are  $\pm 0.005$  inch and  $\pm 30'$  (angle).
4. Dimensions are in inches.
5. Metric equivalents are given for information only.
6. For design purposes this specification takes precedence over procurement documents referenced herein.
7. Referenced documents are DESC drawings.
8. Series BNC socket contact shall be in accordance with MIL-STD 348.
9. GR-874 interface shall be in accordance with this specification.

FIGURE 1. General configuration, interface dimensions and test pin - Continued

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Engineering Information:

Frequency range: DC to 3 GHz.

Impedance: 50 ohms.

Voltage rating: 100 volts peak.

Applicable drawings

Quantity	Description	Drawing or MS
1	Outer conductor	68015
1	Inner conductor	68016
1	Insulator	68018
1	Contact, Inner	68019
1	Coupling nut	68020
1	Retaining ring	68021
1	Socket body	68022
1	Insulation bead	69001

Requirements:

Dimensions and configuration shall be specified on figure 1.

All metal parts shall be free from chips, burrs and scratches in accordance with best commercial practices.

Insulators shall be in accordance with ASTM D1710.

Connector body, outer contact and coupling nut shall be brass in accordance with ASTM B16/B16M and nickel plated a minimum of 200μ inches in accordance with SAE-AMS-QQ-N-290.

BNC connector body and contact shall be silver plated 200μ inches, minimum in accordance with ASTM B700.

Contacts shall be Beryllium copper in accordance with ASTM B196/B196M

Corrosion: In accordance with test procedure EIA/ECA 364-26, test condition B.

Part or Identifying Number (PIN): MS75093 and MS75093-1 through -3 (See figure 1).

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Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Referenced documents. In addition to MIL-DTL-27434, this document references the following:

DESC drawing 68015  
DESC drawing 68016  
DESC drawing 68018  
DESC drawing 68019  
DESC drawing 68020  
DESC drawing 68021  
DESC drawing 68022  
DESC drawing 69001  
MIL-STD-348  
ASTM B16/B16M  
ASTM B196/B196M  
ASTM B700  
ASTM D1710  
SAE-AMS-QQ-N-290  
EIA/ECA 364-26

CONCLUDING MATERIAL

Custodians:

Army – CR  
Navy – EC  
Air Force – 85  
DLA – CC

Preparing activity:  
DLA – CC

(Project 5935-2013-157)

Review activities:

Army – AR, AT, AV, CR4, MI  
Navy – AS, CG, MC, OS  
Air Force - 19

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>.