

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	Clarify VSWR and IL testing requirements as engineering info.	2 February 2010	Abdonasser M. Abdouni

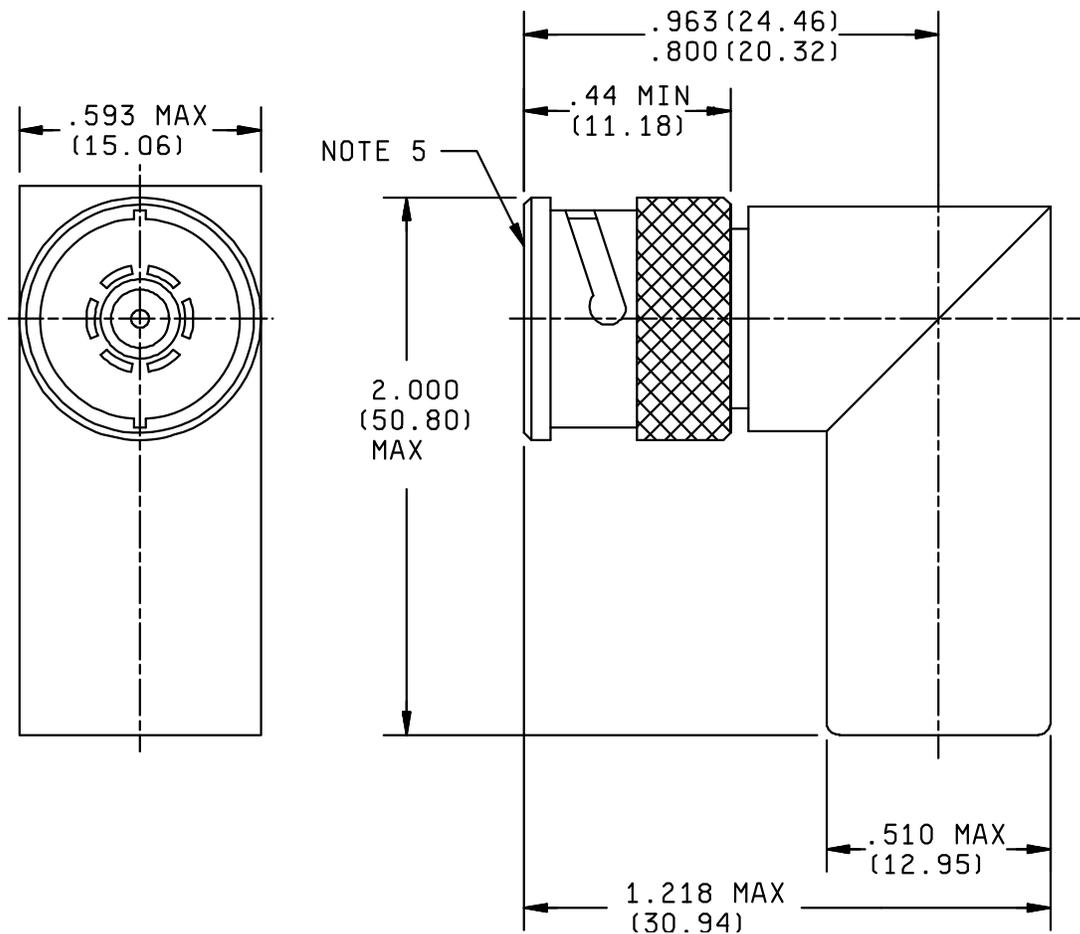


Prepared in accordance with ASME Y14.100

Source Control Drawing

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PAGE																		
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PMIC N/A	PREPARED BY Ron Gary	DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OHIO 43218-3990
Original date of drawing 7 May 2001	CHECKED BY Lee Surowiec	TITLE CONNECTOR, PLUG, ELECTRICAL, RF, SERIES BNC, RIGHT ANGLE, 75 OHMS, FOR LOW SMOKE CABLES
	APPROVED BY Robert Heber	
	SIZE A	CAGE CODE 037Z3
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NOTES:

1. Dimensions are in inches. Metric equivalents are in parenthesis.
2. Metric equivalents are given for reference purposes only.
3. All undimensioned pictorial configurations are for reference purposes only.
4. No safety wire holes are required.
5. Series BNC, pin contact interface, 75Ω, in accordance with figure 2.

FIGURE 1. General configuration.

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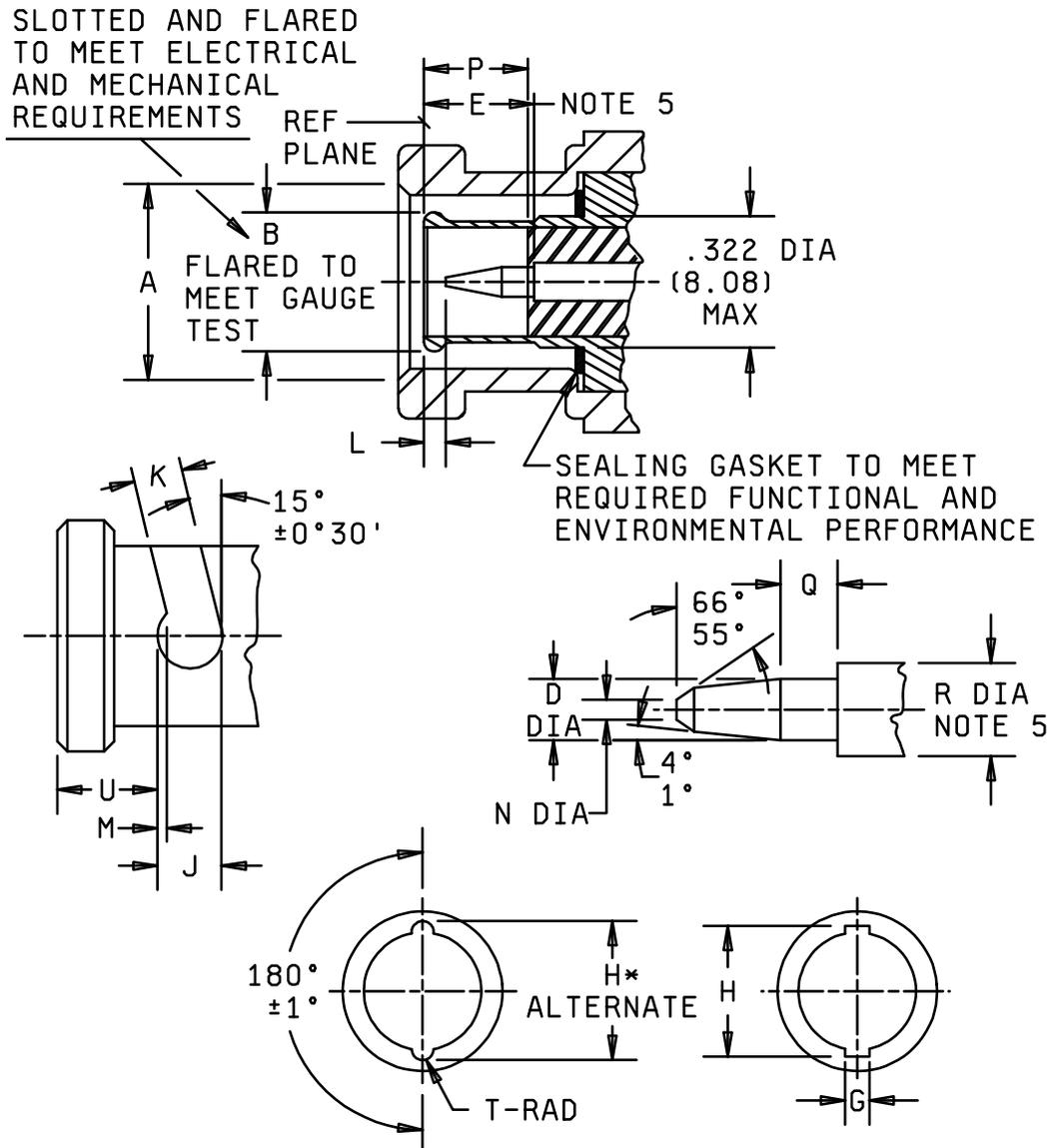


FIGURE 2. Interface, series BNC, pin contact, 75Ω.

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Dim Ltr	Dimensions in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	.385 (9.78)	.390 (9.91)
B	Gauge test	
D	.052 (1.32)	.054 (1.37)
E	.210 (5.33)	.230 (5.84)
G	.091 (2.31)	.097 (2.46)
H	.463 (11.76)	.473 (12.01)
H *	.394 (10.01)	.400 (10.16)
J	.124 (3.15)	
K	.091 (2.31)	.097 (2.46)
L	.003 (0.08)	
M	.018 (0.46)	.022 (0.56)
N		.025 (0.64)
P	.208 (5.28)	.228 (5.79)
Q	.078 (1.98)	
R	.052 (1.32)	.087 (2.21)
T	.045 (1.14)	.049 (1.24)
U	.180 (4.57)	.184 (4.67)

NOTES:

1. Dimensions are in inches. Metric equivalents are in parenthesis.
2. Metric equivalents are given for general information only.
3. In the mated condition, the longitudinal force of the spring of the coupling mechanism shall exceed the pressure exerted by the sealing gasket by an amount.
4. This interface shall meet the gauge requirements as specified necessary to insure butting of the outer contacts at the reference plane.
5. This dimension applies only if R dimension is not the same as D dimension.

FIGURE 2. Interface, series BNC, pin contact, 75Ω - Continued.

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ENGINEERING DATA:

This document covers the requirements for radio frequency connectors accommodating special low smoke coaxial cables.

Frequency range: 0-2.5 GHz.
VSWR: 1.35 :1, maximum.
Insertion loss: .25 dB at 2 GHz.

REQUIREMENTS:

These connectors shall conform to all the requirements of the latest issue of DSCC drawing 84148, figures 1 and 2 herein, and MIL-PRF-39012/20, and accommodate the cables listed in table I, with the following additions and exceptions.

Electrical: Shall be in accordance with MIL-PRF-39012/20.

Impedance: 75Ω.

Mechanical: Shall be in accordance with MIL-PRF-39012/20 with the following exception:

Interface to be in accordance with figure 2.
No safety wire holes are required.

Environmental: Shall be in accordance with MIL-PRF-39012/20.

TABLE I. Cable accommodation.

Part or Identifying Number (PIN) <u>1/</u> <u>2/</u>	Applicable cable
01025BBSA @	M17/229-00001

1/ These connectors have captivated center contacts.

2/ These connectors are assembled using the MIL-C-22520/5 crimp tool and using the following crimp dies:

@ M22520/5-19 Closure A.

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Approved sources of supply. Approved sources of supply are listed herein. Additional sources will be added as they become available. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to DSCC-VAI.

DSCC drawing PIN	Vendor CAGE number	Vendor similar PIN <u>1/</u>
01025BBSA	00795	3190-884

1/ Parts must be purchased to this DSCC PIN to assure that all performance requirements and test are met.

Vendor CAGE
Number

00795

Vendor name
and address

Delta Electronics
416 Cabot Street
Beverly, MA 01915

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