

REVISIONS

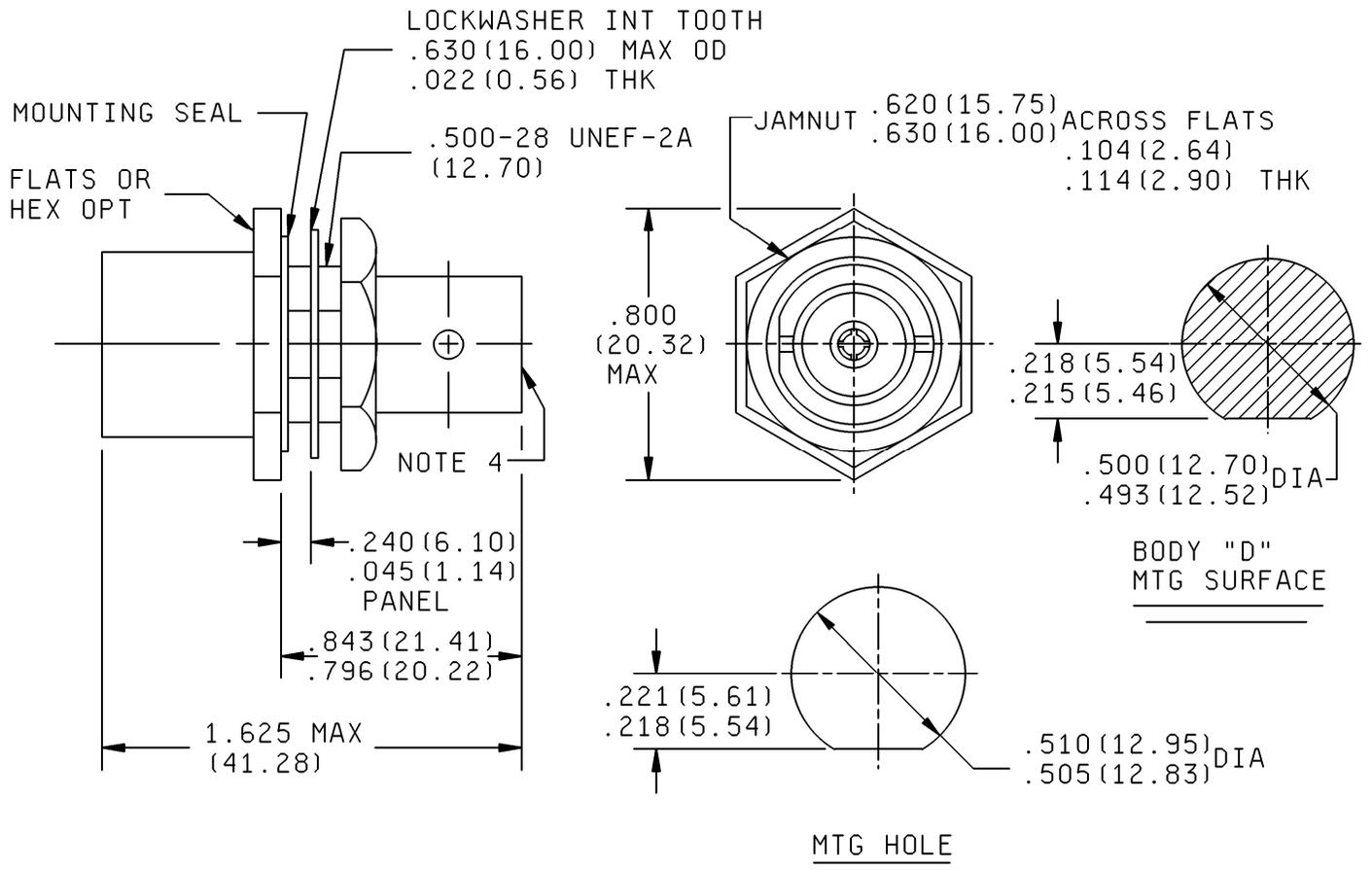
LTR	DESCRIPTION	DATE	APPROVED
A	Clarify VSWR and IL testing requirements as engineering info.	2 February 2010	Abdonasser M. Abdouni

Prepared in accordance with ASME Y14.100

Source Control Drawing

REV																	
PAGE																	
REV STATUS OF PAGES	REV	A	A	A	A	A	A										
	PAGE	1	2	3	4	5	6										

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, RECEPTACLE, ELECTRICAL, RF, SERIES BNC, JAMNUT MOUNT, 75 OHM, FOR LOW SMOKE CABLES			
	APPROVED BY Robert Heber					
	SIZE A	CAGE CODE 037Z3	DWG. NO.	01023		
	REV A	PAGE	1	OF	6	

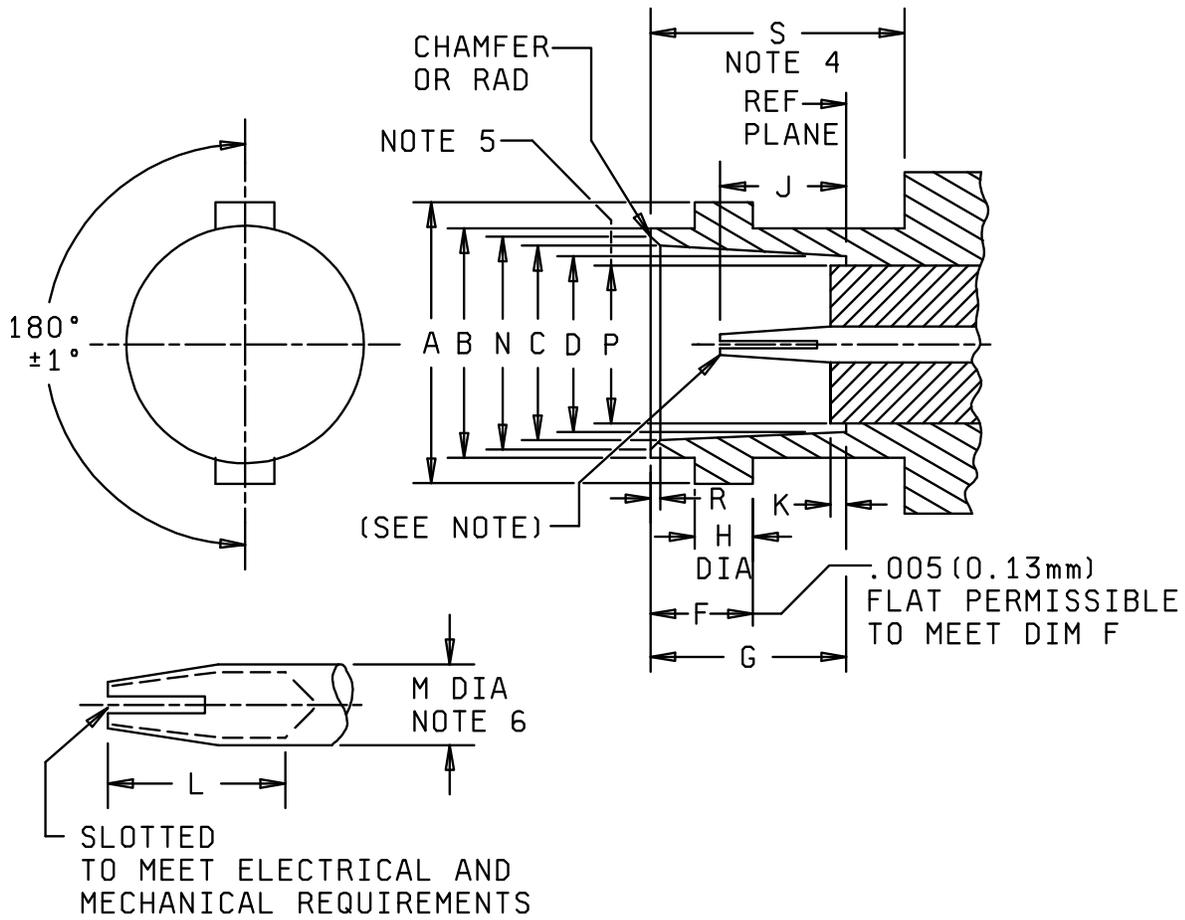


NOTES:

1. Dimensions are in inches; metric equivalents are in parentheses.
2. Metric equivalents are given for general information only.
3. All undimensioned pictorial configurations are for reference purposes only.
4. Series BNC, socket contact interface, 75Ω, in accordance with figure 2.
5. Wrench flats to accommodate STD wrench openings in accordance with FED-STD-H28, appendix 10

FIGURE 1. General configuration.

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH 43218-3990	SIZE A	CAGE CODE 037Z3	DWG NO. 01023
		REV A	PAGE 2



NOTE:

ID to meet contact resistance, mating characteristics and connector durability when mated with a .052/.054 inch (1.32/1.37 mm) diameter pin.

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

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH 43218-3990	SIZE A	CAGE CODE 037Z3	DWG NO. 01023
		REV A	PAGE 3

Dim Ltr	Dimensions are in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	.432 (10.97)	.435 (11.07)
B	.378 (9.60)	.382 (9.70)
C	.327 (8.31)	.333 (8.46)
D	.319 (8.10)	.321 (8.15)
F	.204 (5.18)	.208 (5.28)
G	.327(8.31)	.335 (8.51)
H	.075 (1.91)	.081 (2.06)
J	.186 (4.72)	.206 (5.23)
K		.006 (0.15)
L	.195 (4.95)	
M	.081 (2.06)	.087 (2.21)
N	.346 (8.79)	.356 (9.04)
P		.256 (6.50)
R	.015 (0.38)	.030 (0.76)
S	.414 (10.52)	

NOTES:

1. Dimensions are in inches. Metric equivalents are in parenthesis.
2. Metric equivalents are given for general information only.
3. This interface shall meet the gauge requirements as specified.
4. Clearance for mating connector coupling nut.
5. "P" dimension applies to that portion (if applicable) of dielectric which extends beyond references planes by dimension K.
6. "M" applies only over length "L".

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

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH 43218-3990	SIZE	CAGE CODE	DWG NO.
	A	037Z3	01023
		REV A	PAGE 4

ENGINEERING DATA:

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

Frequency range: 0-2.5 GHz.
VSWR: 1.30 :1, maximum.
Insertion loss: .16 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-39012/19, and accommodate the cables listed in table I, with the following additions and exceptions.

Electrical: Shall be in accordance with MIL-PRF-39012/19 with the following exceptions and additions.

Impedance: 75Ω.

Equipment capable of accurately measuring the VSWR and insertion loss for 75 ohm connectors is required in order to verify test results.

Mechanical: Shall be in accordance with MIL-PRF-39012/19 with the following exceptions and additions.

Interface shall be in accordance with figure 2.

Environmental: Shall be in accordance with MIL-PRF-39012/19.

TABLE I. Cable accommodation.

Part or Identifying Number (PIN) <u>1/</u> <u>2/</u>	Applicable cable
01023BBSA @	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.

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH 43218-3990	SIZE	CAGE CODE	DWG NO.
	A	037Z3	01023
		REV A	PAGE 5

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>
01023BBSA	00795	3190-888

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

DEFENSE SUPPLY CENTER, COLUMBUS
COLUMBUS, OH 43218-3990

SIZE

A

CAGE CODE

037Z3

DWG NO.

01023

REV

A

PAGE

6