INCH-POUND

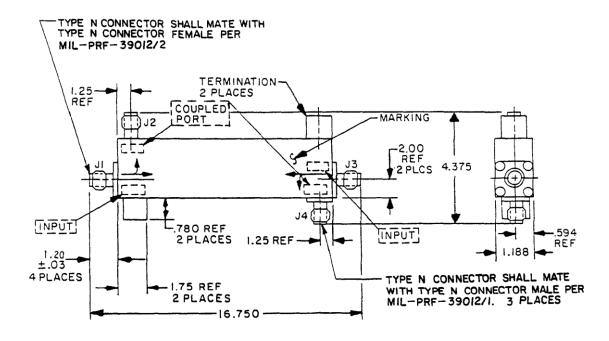
MIL-DTL-15370/11E 15 December 2015 SUPERSEDING MIL-DTL-15370/11D 10 May 2004

DETAIL SPECIFICATION SHEET

COUPLERS, DIRECTIONAL DUAL (COAXIAL, SERIES N CONNECTORS)

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

The requirements for acquiring the couplers described herein shall consist of this specification sheet and MIL-DTL-15370.

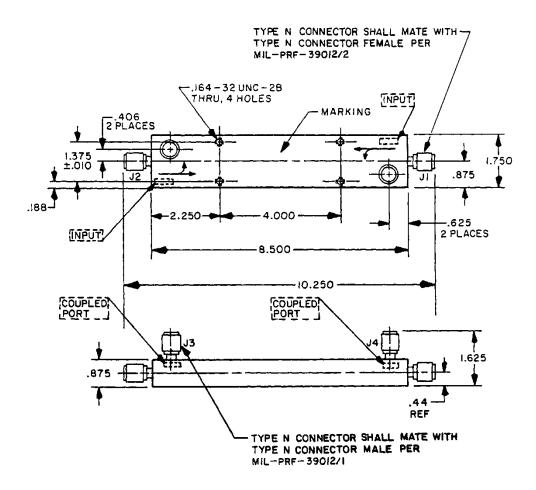


	Inches	mm
	.03	8.0
NOTES:	.594	15.09
Dimensions are in inches.	.780	19.81
2. Metric equivalents are given for information only.	1.188	30.18
3. Unless otherwise specified, tolerance is ±.030 (0.76 mm).	1.20	30.5
	1.25	31.8
	1.75	44.5
	2.00	50.8
	4.375	111.12
FIGURE 1. <u>Dimensions and configuration for part number M15370/11-001</u> .	16.750	425.45

AMSC N/A FSC 5985



MIL-DTL-15370/11E



	.010	0.25
	.164	4.17
	.188	4.78
	.406	10.31
	.44	11.2
	.625	15.88
	.750	19.05
	.875	22.22
	1.375	34.92
NOTES:	1.625	41.28
Dimensions are in inches.	1.750	44.45
Metric equivalents are given for information only.	2.250	57.15
	4.000	101.60
3. Unless otherwise specified, tolerance is $\pm .030$ (0.76 mm).	8.500	215.90
	10.250	260.35

Inches

mm

FIGURE 2. <u>Dimensions and configuration for part number M15370/11-002</u>.

MIL-DTL-15370/11E

TABLE I. Electrical requirements.

	Frequency range		3		Insertion	VSWR max		RF input power to primary		Weight max			
		Nominal	Tolerance	(dB) max	, ,	(dB) max	(dB) max	Primary line	Secondary line	Over frequency range	Avg	Peak	
	GHz											lbs	
001	0.45 - 2.0 0.1 - 0.450	20 20 <u>1</u> / (0.45 GHz)	± 0.5 (mean coupling)	± 1.5 (from nominal) ± 1.5 (from nominal)	Auxiliary output J2: 30 dB Auxiliary output J4: 36 dB, -0.1 - 1.0 GHz 32 dB, 1.0 - 2.0 GHz	0.6	1.10:1	1.10:1	50	50	10	4	
002	4.0 - 8.0	20	<u>±</u> 1	±1	25 dB	0.6	1.15:1	1.20:1	500	500	10	1.5	

^{1/} Nominal coupling values increasing 0.006 dB/MHz for decreasing frequency, below 0.45 GHz.

REQUIREMENTS:

Design, construction and physical dimensions: See figures 1 and 2.

Connectors: Type N connectors, corrosion-resistant steel.

Operating temperature range: -20°C to +65°C.

Electrical: See table I.

Weight: See table I.

Auxiliary lines output to output amplitude equality (-001 only): 0.7 dB maximum.

Auxiliary output to output phase equality (-001 only): 4° maximum.

Shock: Not applicable.

Marking: See figures 1 and 2.

Part number: M15370/11-001 and M15370/11-002.

MIL-DTL-15370/11E

<u>Referenced documents</u>. In addition to MIL-DTL-15370, this specification sheet references the following documents: MIL-PRF-39012/1 and MIL-PRF-39012/2.

The margins of this specification are marked with vertical lines 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.

Custodians:

Army - CR Navy - EC Air Force - 85 DLA - CC Preparing activity: DLA - CC

(Project 5985-2016-006)

Review activities:

Army - MI Navy - AS, CG, MC, OS, SH Air Force - 99

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/.