

INCH-POUND

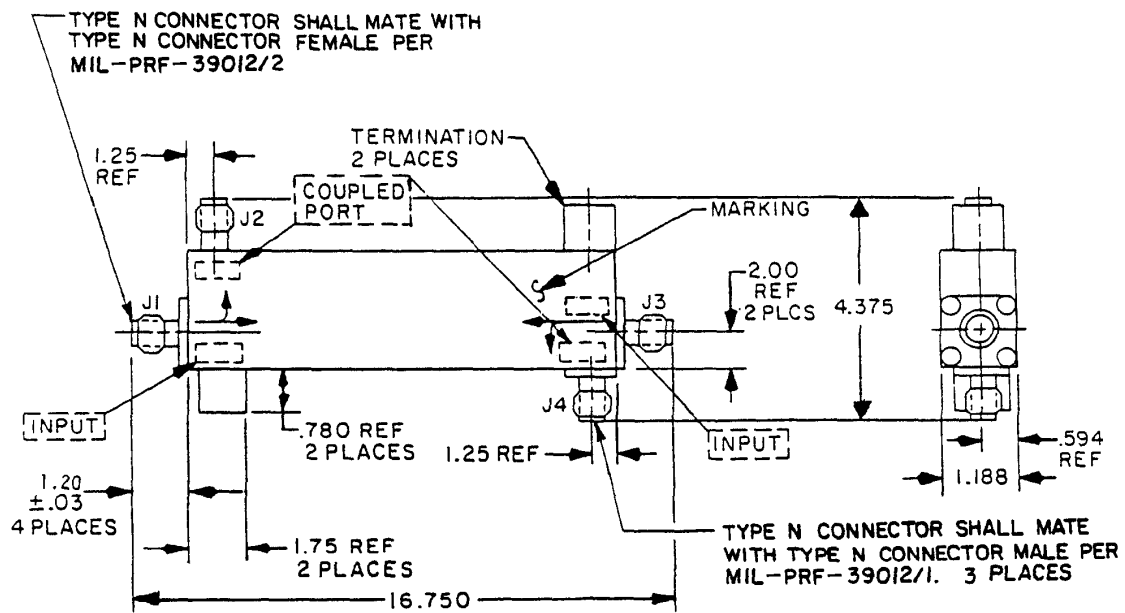
MIL-DTL-15370/11D
 10 May 2004
 SUPERSEDING
 MIL-DTL-15370/11C
 18 June 2003

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.



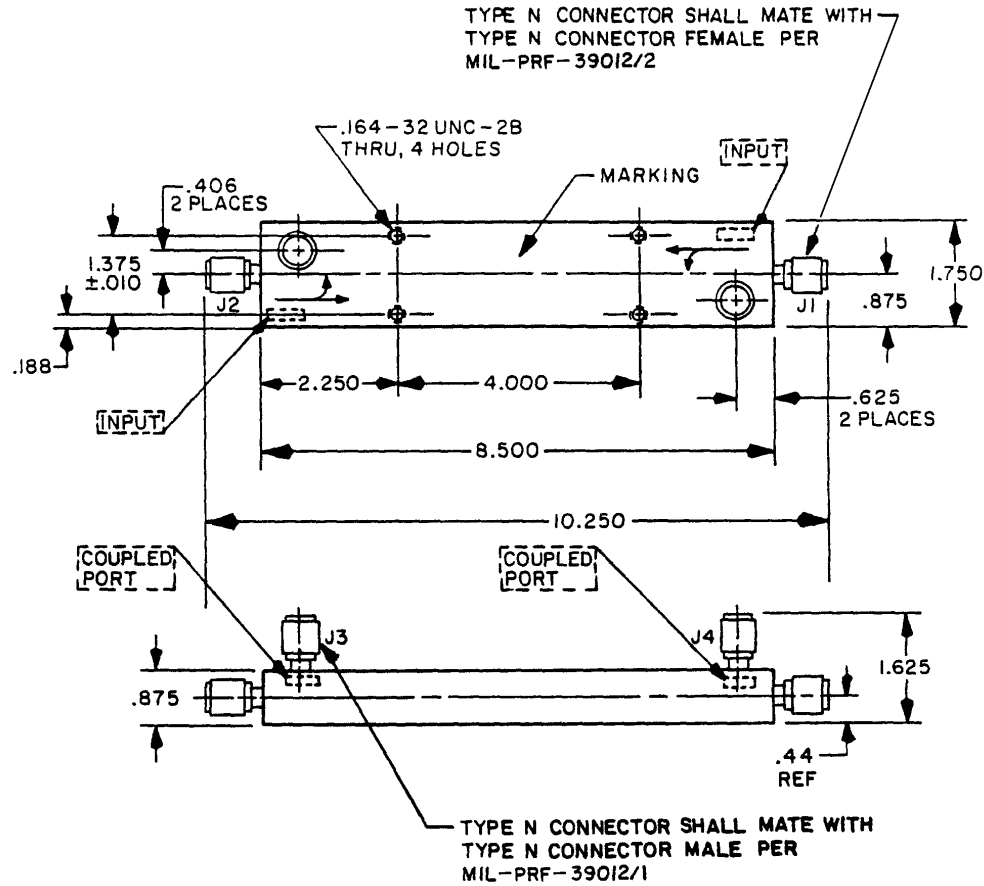
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is ± 0.030 (0.76 mm).

Inches	mm
.03	0.8
.594	15.09
.780	19.81
1.188	30.18
1.20	30.5
1.25	31.8
1.75	44.5
2.00	50.8
4.375	111.12
16.750	425.45

FIGURE 1. Dimensions and configuration for part number M15370/11-001.

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NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is ± 0.030 (0.76 mm).

Inches	mm
.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
1.625	41.28
1.750	44.45
2.250	57.15
4.000	101.60
8.500	215.90
10.250	260.35

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

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TABLE I. Electrical requirements.

Dash No.	Frequency range	Coupling (dB)		Coupling variation (dB) max	Effective directivity (dB) max	Insertion loss (dB) max	VSWR max		RF input power to primary			Weight max
		Nominal	Tolerance				Primary line	Secondary line	Over frequency range	Avg	Peak	
	GHz											lbs
001N S	0.45 - 2.0	20	± 0.5 (mean coupling)	± 1.5 (from nominal)	Auxiliary output J2: 30 dB	0.6	1.10:1	1.10:1	50	50	10	4
	0.1 - 0.450	20 $\frac{1}{/}$ (0.45 GHz)	---	± 1.5 (from nominal)	Auxiliary output J4: 36 dB, -0.1 - 1.0 GHz 32 dB, 1.0 - 2.0 GHz	0.6						
002N S	4.0 - 8.0	20	± 1	± 1	25 dB	0.6	1.15:1	1.20:1	500	500	10	1.5

$\frac{1}{/}$ 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.

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NOTES:

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

Changes from previous issue. 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:

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Navy - EC
Air Force - 11
DLA - CC

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DLA - CC

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Review activities:

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