

INCH-POUND

MIL-DTL-23971/17C

21 March 2017

SUPERSEDING

MIL-DTL-23971/17B

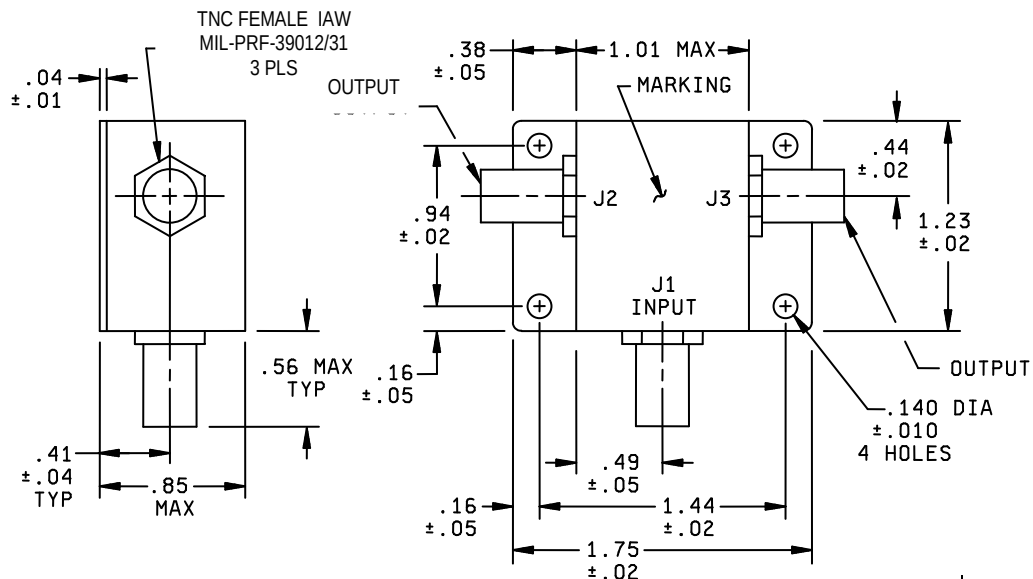
3 May 2012

DETAIL SPECIFICATION SHEET

POWER DIVIDER/COMBINERS, N-WAY, 0 DEGREES, TNC CONNECTORS

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-23971.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

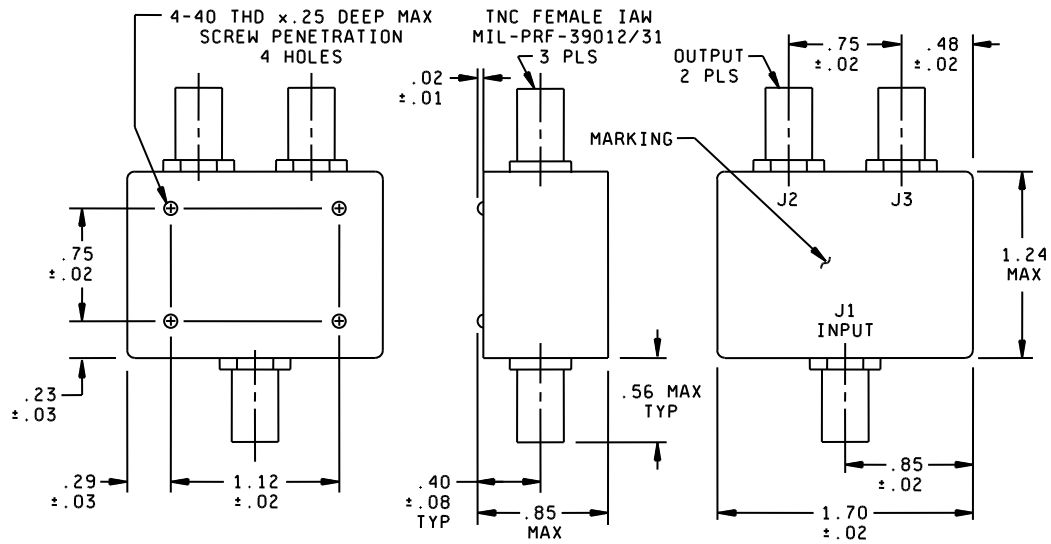
FIGURE 1. Dimensions and configuration, 2-way, dash number 01.

Inches	mm	Inches	mm
.01	0.3	.44	11.2
.02	0.5	.49	12.4
.04	1.0	.56	14.2
.05	1.3	.85	21.6
.14	3.6	.94	23.9
.16	4.1	1.01	25.7
.38	9.7	1.23	31.2
.41	10.4	1.44	36.6
		1.75	44.4

AMSC N/A

FSC 5985



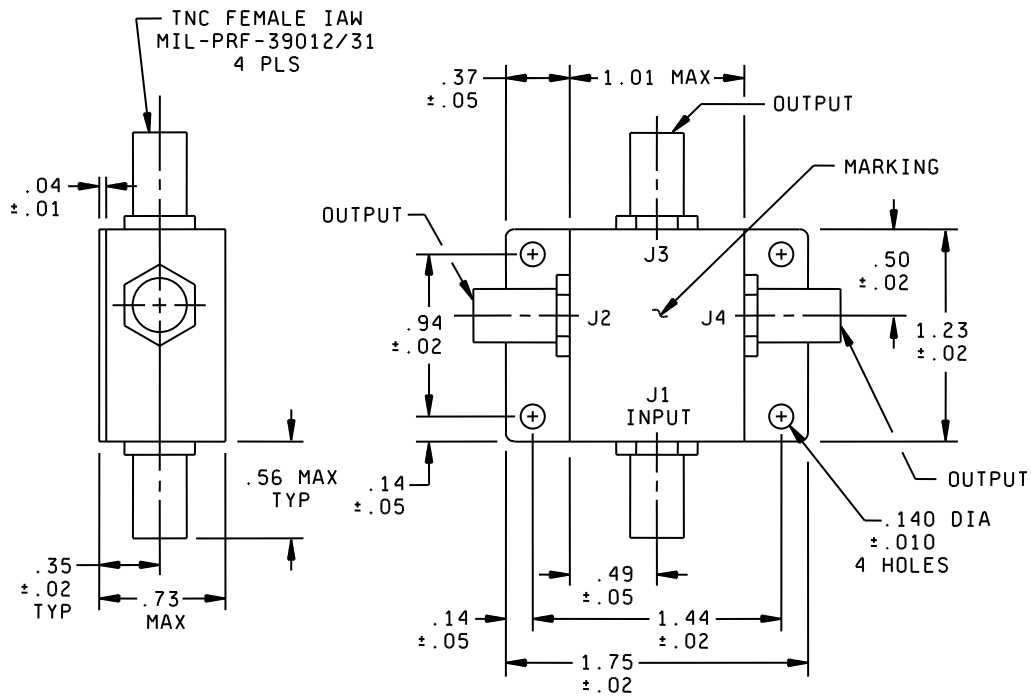


Inches	mm	Inches	mm
.01	0.3	.48	12.2
.02	0.5	.56	14.2
.03	0.8	.75	19.0
.08	2.0	.85	21.6
.23	5.8	1.12	28.4
.25	6.4	1.24	31.5
.29	7.4	1.70	43.2
.40	10.2		

NOTES:

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FIGURE 2. Dimensions and configuration, 2-way, dash number 02.



Inches	mm	Inches	mm
.01	0.3	.50	12.7
.02	0.5	.56	14.2
.04	1.0	.73	18.5
.05	1.3	.94	23.9
.14	3.6	1.01	25.7
.35	8.9	1.23	31.2
.37	9.4	1.44	36.6
.49	12.4	1.75	44.4

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 3. Dimensions and configuration, 3-way, dash number 03.

TABLE I. Electrical performance characteristics and physical requirements.

M23971/17-	Impedance (ohms)	Frequency range MHz	Average coupling (dB)	VSWR max	Insertion loss max (dB)	Isolation min (dB)	Phase balance max (degree)	Amplitude balance max (dB)	Power level		Weight pounds (grams)	Ambient temperature		Figure
									avg (W)	pk (W)		Operating	Storage	
01	50	.05 - 20	3.0 + 0.2 - 0.0	1.3:1	0.5	30	± 1.0	± 0.2	---	2	.14 (64)	-55°C to +85°C	-65°C to +100°C	1
02	50	1 - 100	3.0 + 0.2 - 0.0	1.3:1	0.5	30	± 1.0	± 0.2	---	5	.16 (73)	0°C to +40°C	-40°C to +100°C	2
03	50	200 - 400	4.8 + 0.3 - 0.0	1.3:1	0.75	25	± 2.0	± 0.2	---	5	.15 (70)	-55°C to +85°C	-65°C to +100°C	3

TABLE II. Environmental tests, in accordance with MIL-DTL-23971, except:

M23971/17-	Thermal shock	Vibration high frequency	Shock
01, 03	Test condition A	Test condition D	Test condition A

REQUIREMENTS:

Design and construction: See figures 1 through 3.

Case: Enclosed type.

Electrical characteristics: See table I.

Weight: See table I.

Ambient temperature: See table I.

Environmental requirements: See table II.

Part or Identifying Number (PIN): M23971/17- (dash number from table I).

Referenced documents. In addition to MIL-DTL-23971, this specification sheet references the following documents:
MIL-PRF-39012/31

The margins of this specification sheet are marked with vertical lines to indicate where changes from the previous revision 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 5985-2017-005)

Review activities:

Navy - AS, MC, OS

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/>.