

INCH-POUND

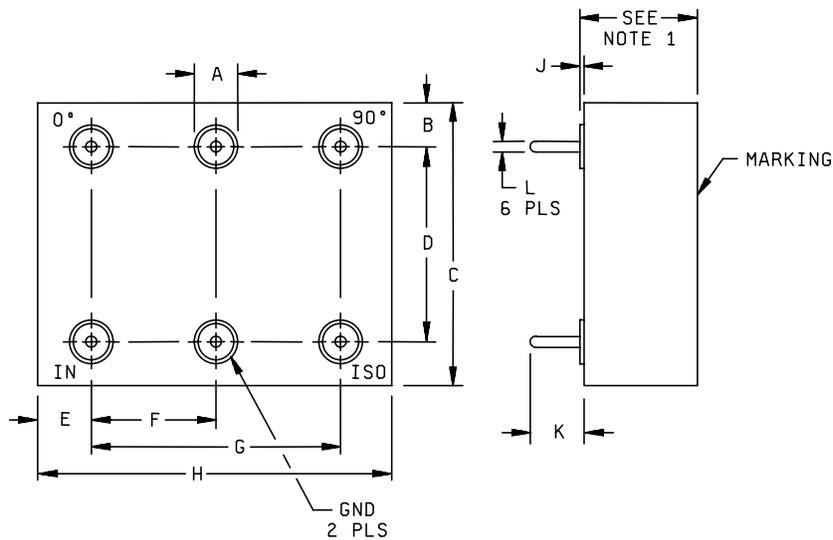
MIL-DTL-23971/10A
 23 April 2002
 SUPERSEDING
 MIL-P-23971/10
 22 February 1980

DETAIL SPECIFICATION SHEET

POWER DIVIDER/COMBINERS, QUADRATURE, RECTANGULAR,
 PC PINS

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

The requirements for acquiring the power divider described herein shall consist of this specification sheet and MIL-DTL-23971.



NOTES:

1. Dash number 01: .465 (11.81 mm) maximum.
 Dash number 02: .400 (10.16 mm) maximum.
2. Dimensions are in inches.
3. Metric equivalents are given for general information only.

	Dimensions			
	Inches		Millimeters	
	Max	Min	Max	Min
A	.165	.145	4.2	3.7
B	.19	.13	4.8	3.3
C	1.03	.97	26.2	24.6
D	.72	.66	18.3	16.8
E	.22	.16	5.6	4.1
F	.47	.41	11.9	10.4
G	.91	.85	23.1	21.6
H	1.28	1.22	32.5	31.0
J	.125	.005	3.18	.13
K	.22	.16	5.6	4.1

FIGURE 1. Dimensions and configuration, dash number 01 and 02.

REQUIREMENTS:

Design and construction: See figure 1.

Housing: Hermetically sealed.

Finish: Prime with MIL-PRF-23377, one coat. Paint with two coats MIL-PRF-22750, color 36231 per FED-STD-NO. 595. Paint all exterior surfaces except terminals and mounting surfaces.

Terminals:

Material:

Input and output terminals: Nickel alloy 52. Nickel is to be used only if specification cannot be met using alternate material means.

Ground terminals: Brass, in accordance with ASTM-B121, ASTM-B36, ASTM-B16/B16M and ASTM-B124, composition 22.

Finish: Hot tin dip finish, .0001 inch minimum in accordance with ASTM-B545, ASTM-B339.

Electrical performance characteristics:

Impedance: 50 ohms.

Frequency range: 26 to 34 MHz.

Average coupling: 3, +.2, -.0 dB.

VSWR: 1.2:1.

Insertion loss: 0.3 dB maximum.

Isolation: 25 dB minimum.

Phase balance: $90^\circ \pm 1^\circ$ at 30 MHz.

Amplitude balance: ± 0.2 dB maximum at 30 MHz.

Power level: 1.0 watt average.

Weight: .031 pounds (14.0 grams).

Ambient temperature:

Operating: -54° to $+71^\circ\text{C}$.

Storage: -65° to $+95^\circ\text{C}$.

Part number: M23971/10-(dash number from figure 1).

Custodians:

Army - CR

Navy - EC

Air Force - 11

DLA - CC

Preparing activity:

DLA - CC

(Project 5985-1227-10)

Review activities:

Navy - AS, MC, OS