

INCH-POUND

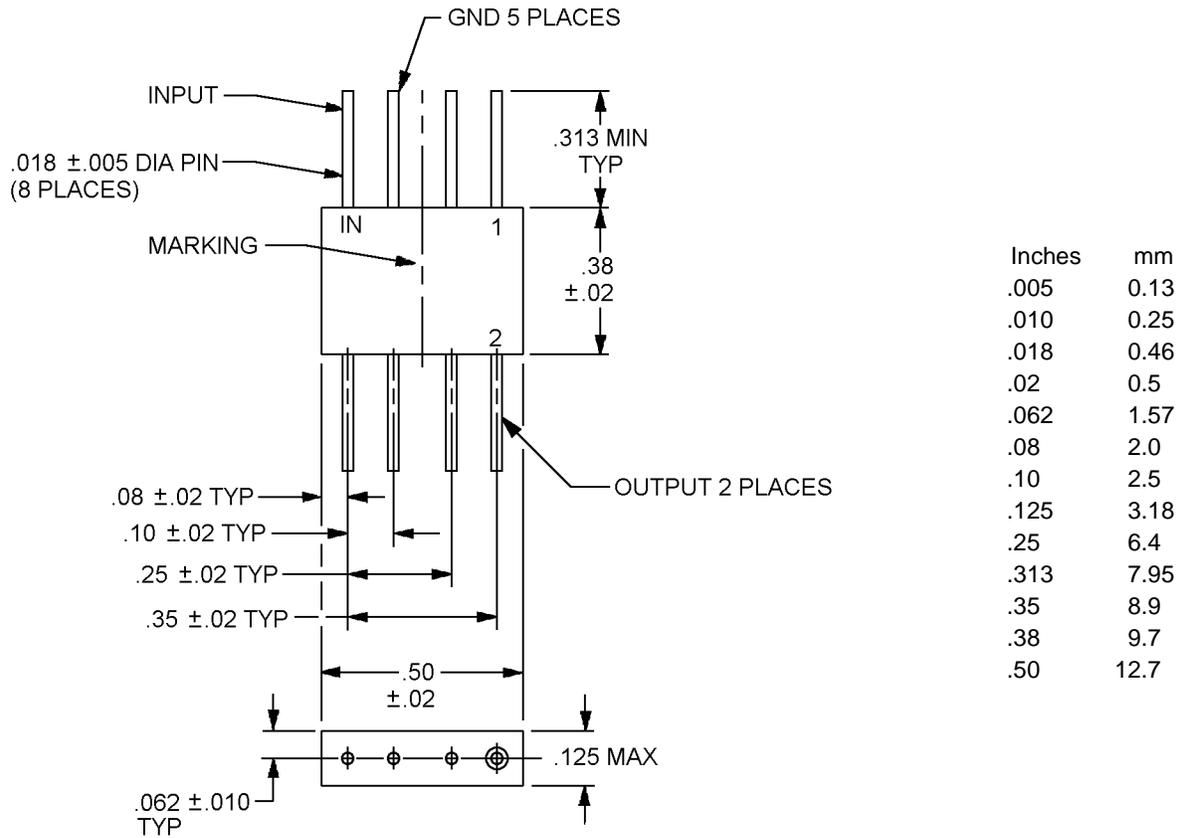
MIL-DTL-23971/14A  
 21 April 2003  
 SUPERSEDING  
 MIL-P-23971/14  
 22 February 1980

DETAIL SPECIFICATION SHEET

POWER DIVIDER/COMBINERS, N-WAY, 0 DEGREES, FLAT PACK

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

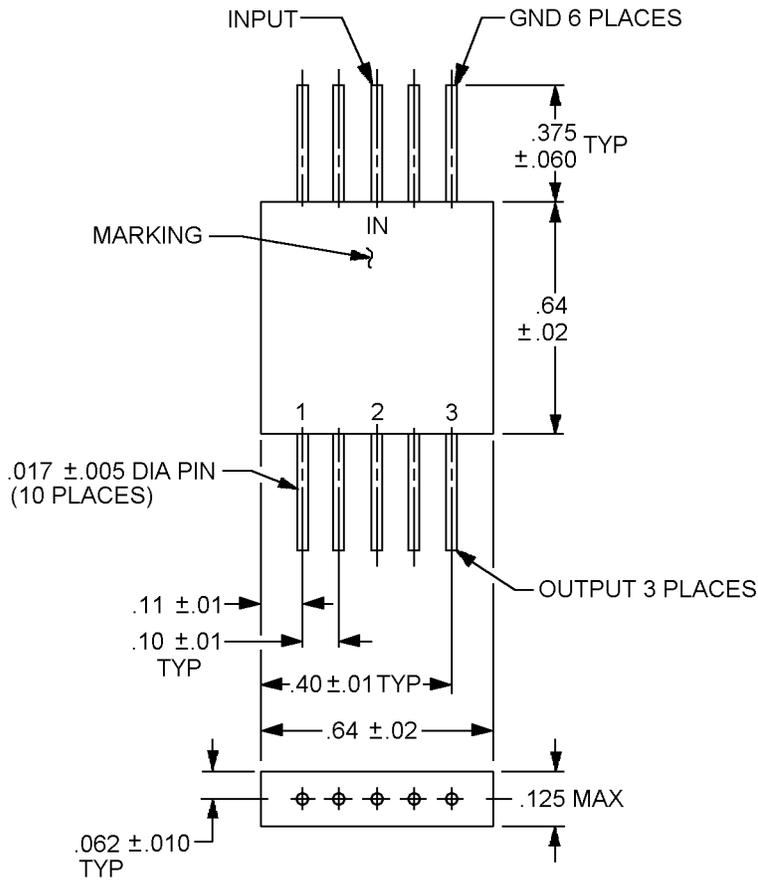
The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-23971.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.

FIGURE 1. Dimensions and configuration, 2-way, dash numbers 01, 02, and 03.

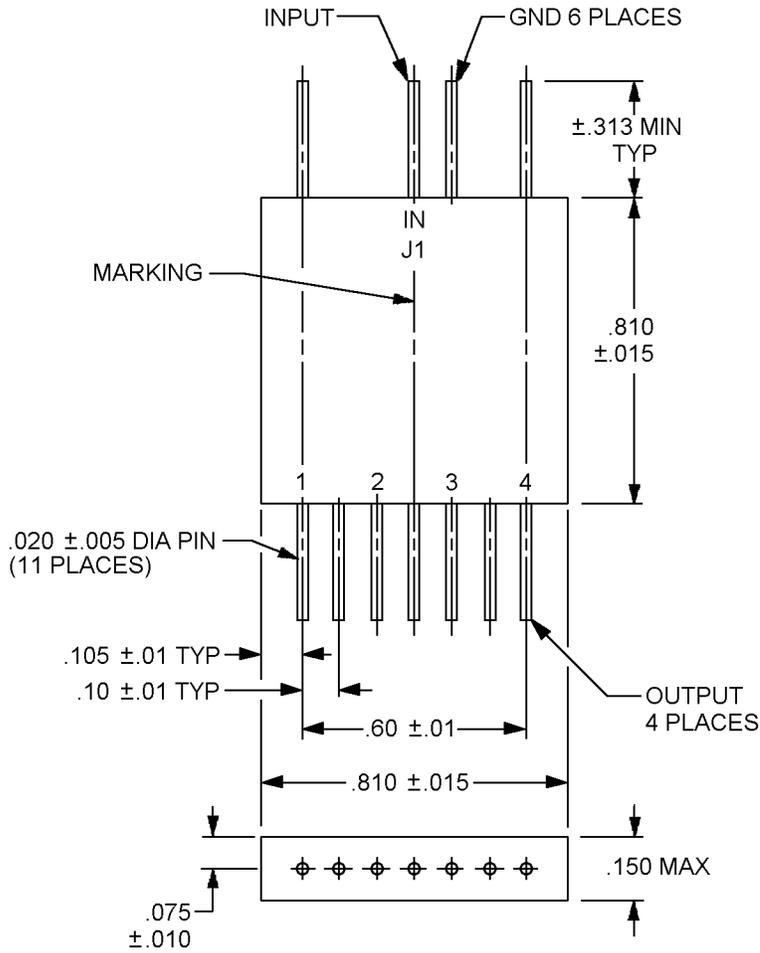


Inches	mm
.005	0.13
.010	0.25
.01	0.3
.017	0.43
.02	0.508
.020	0.51
.060	1.52
.062	1.57
.10	2.5
.11	2.8
.125	3.18
.375	9.52
.40	10.2
.640	16.26

NOTES:

1. Dimensions are in inches.
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FIGURE 2. Dimensions and configuration, 3-way, dash number 04.



Inches	mm
.005	0.13
.010	0.25
.015	0.38
.020	0.51
.075	1.90
.10	2.5
.105	2.67
.150	3.81
.313	7.95
.60	15.2
.810	20.57

NOTES:

1. Dimensions are in inches.
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FIGURE 3. Dimensions and configuration, 4-way, dash number 05.

A TABLE I. Electrical performance characteristics and physical requirements.

M23971/14-	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	5-100	3.0 + 0.2 -0.0	1.3:1	0.4	30	±1.0	± 0.1	---	1.0	.006 (2.8)	-20°C to +71°C	-40°C to +85°C	1
02	50	10-25	3.0 + 0.6 -0.0	1.3:1	0.6	25	±1.0	± 0.1	---	1.0	.006 (2.8)	-55°C to +85°C	-65°C to +100°C	1
		30												
03	50	300-500	3.0 + 0.2 -0.0	1.3:1	0.5	30	±2.0	± 0.1	---	1.0	.006 (2.8)	-20°C to +71°C	-40°C to +85°C	1
04	50	3-32	4.8 + 0.3 -0.0	1.2:1	0.6	30	±2.0	± 0.2	---	0.5	.008 (3.5)	-20°C to +71°C	-40°C to +85°C	2
05	50	10-25	---	1.5:1	---	25	±2.0	±0.2	---	1.0	.006 (2.8)	-55°C to +85°C	-55°C to +85°C	3
		25-500	---	1.35:1	---									
		10-400	6.0 + 0.75 -0.0	---	0.75									
		400-500	6.0 + 0.85 -0.0	---	0.85									

REQUIREMENTS:

Design and construction: See figures 1, 2, and 3.

Case: Hermetically sealed.

Terminals: Solderable.

Electrical characteristics: See table I.

Weight: See table I.

Ambient temperature: See table I.

Part or Identifying Number (PIN): M23971/14 - (dash number from table I).

Custodians:

Army - CR

Navy - EC

Air Force - 11

DLA - CC

Preparing activity:

DLA - CC

(Project 5985-1259-03)

Review activities:

Navy - AS, MC, OS