

INCH-POUND

MIL-DTL-28875/12B
20 January 2015
SUPERSEDING
MIL-DTL-28875/12A
24 August 2000

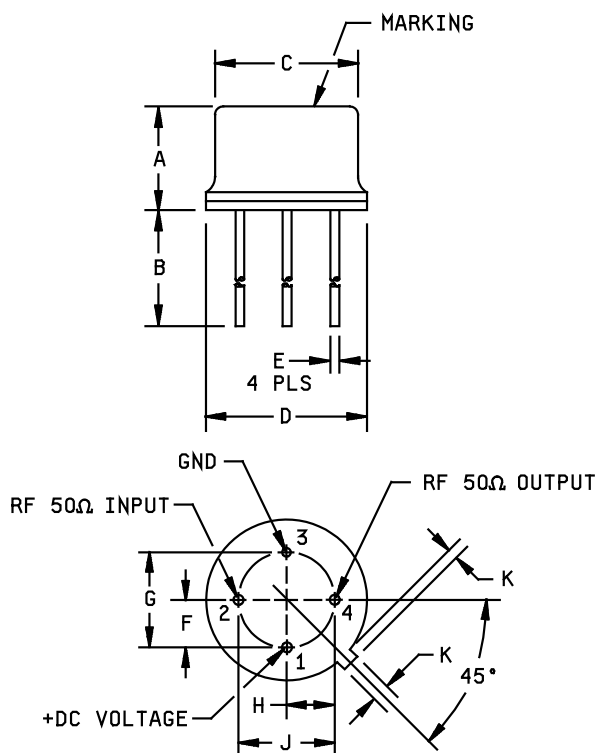
DETAIL SPECIFICATION SHEET

AMPLIFIERS, RADIO-FREQUENCY AND MICROWAVE, SOLID-STATE, WIDEBAND, LOW PROFILE, TO CONFIGURATION

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

Inactive for new design
after 20 May 2010

The requirements for acquiring the amplifiers described herein
shall consist of this specification sheet and MIL-DTL-28875.



	Inches		Millimeters	
	Max	Min	Max	Min
A	.207	.197	5.26	5.00
B	---	.17	---	4.3
C	.555	.545	14.10	13.84
D	.610	.590	15.49	14.99
E	---	.17	---	4.3
F	.210	.190	5.33	4.83
G	.410	.390	10.41	9.91
H	.031	---	0.79	---

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only (1.00 inch = 25.4 mm).
3. Unless otherwise specified, tolerance is ± 0.005 .

FIGURE 1. Dimensions and configuration.



TABLE I. Electrical characteristics (25°C unless otherwise specified).

Dash No.	Frequency range (MHz)	DC input power		Gain (dB) Min	Gain flatness (dB) Max	RF output power (dBm) Min	VSWR Max		Noise figure (dB) Max	Intercept point 3 rd order (dBm) Min	Harmonic output (dBc)	Gain versus temp. (dB)
		Voltage	Curr. Max (mA)				IN	OUT				
S1 01 S2 N	5-500	+15 ±1%	131	25	±0.7	+20.5	2.0:1	2.0:1	4.5	+30	N/A	±1
S1 02 S2 N	5-500	+15 ±1%	131	29	±0.7	+20	2.0:1	2.0:1	4.5	+30	N/A	±1
S1 03 S2 N	10-1000	+15 ±1%	131	24.5	±0.7	+21	2.0:1	2.0:1	5.0	+29	N/A	±1
S1 04 S2 N	200-2000	+15 ±1%	129	14.5	±1.0	+15.5	2.0:1	2.0:1	7.5	+20	N/A	±1
S1 05 S2 N	200-3000	+15 ±1%	129	11.0	±1.0	+15.5	2.0:1	2.0:1	8.5	+20	N/A	±1
S1 06 S2 N	200-2000	+15 ±1%	175	8.0	±1.0	+23.5	2.0:1	2.0:1	4.5	+32	N/A	±1

TABLE II. Dimension, physical and environmental characteristics.

Dash number	Mass Max (Grams)	Temperature range		Burn-in temperature (case temp)	Seal	Salt
		Operating case temp.	Non-operating			
01 S1 S2 N	10	-55/+85°C	-65/+125°C	+85°C	Hermetic	Applicable
02 S1 S2 N	10	-54/+85°C	-55/+125°C	+85°C	Hermetic	Applicable
03 S1 S2 N	10	-54/+85°C	-55/+125°C	+85°C	Hermetic	Applicable
04 S1 S2 N	10	-55/+85°C	-65/+125°C	+85°C	Hermetic	Applicable
05 S1 S2 N	10	-54/+85°C	-62/+125°C	+85°C	Hermetic	Applicable
06 S1 S2 N	10	-55/+85°C	-62/+125°C	+85°C	Hermetic	Applicable

REQUIREMENTS:

Dimensions and configuration: See figure 1 and table II.

Electrical characteristics: See table I.

Physical and environmental characteristics: See table II.

Part number. M28875/12-(dash number from tables I and II).

Referenced documents. This specification sheet only references MIL-DTL-28875.

The margins of this specification sheet are marked with vertical lines to indicate where modifications from this 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.

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