

4 BIT DIGITAL ATTENUATOR *TAN6007*

Available in:
SG4, 10 Lead Gull Wing
Package and Connectorized Housings

Features

- DC - 50 MHz
- Fast Switching Speed: 20 ns Typical (GaAs)
- Integral TTL Driver
- Operating Temp. -55 °C to +85 °C
- Screening to the tables of MIL-STD-883 available

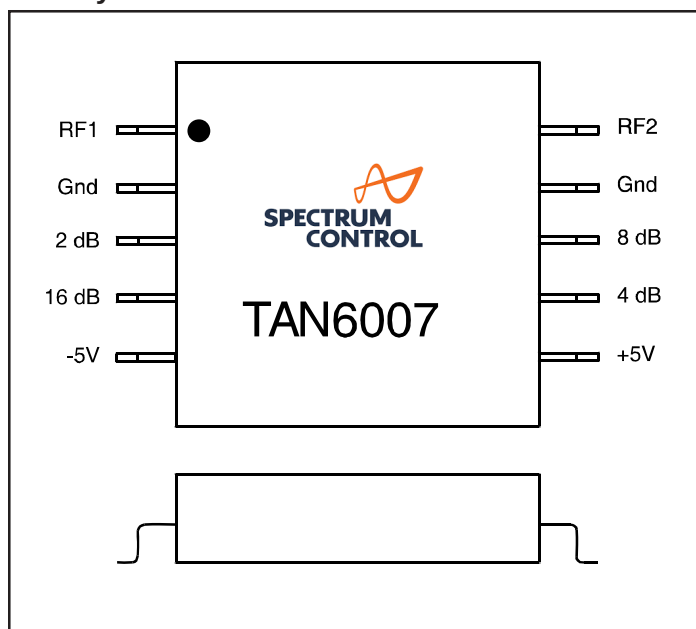
Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	DC - 50 MHz	DC - 50 MHz
Insertion Loss (dB)	1.5	2.0 Max.
Attenuation Range (dB)	2 - 30	2 - 30
Steps (dB)	2,4,8,16	2,4,8,16 Max.
Accuracy	+/-0.15 dB +/-1%	+/-0.25 dB Max. +/-2%
VSWR	1.3:1	1.4:1 Max.
Switching Speed (nsec)	20	30 Max.
Transients (mV)	300	350 Max.
DC Bias Vdc	+5	+5
Bias mA	3	5 Max.
DC Bias Vdc	-5	-5
Bias mA	3	5 Max.

Maximum (No Damage) Ratings

Ambient Operating Temperature -55°C to + 100 °C
Storage Temperature -65°C to + 125 °C
Case Temperature + 125 °C
DC Voltage + 6.0, -6 Volts
Continuous RF Input Power +30 dBm

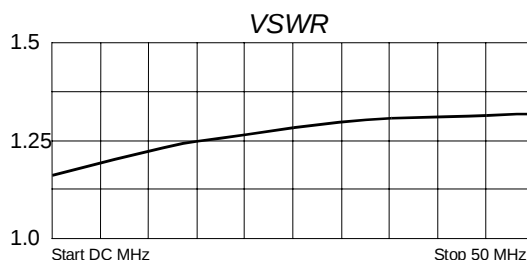
Pin Layout



Truth Table

Control Input 4 Line TTL	Attenuator Setting
1	Attenuate
0	Thru

Typical Performance Data



NOTES:

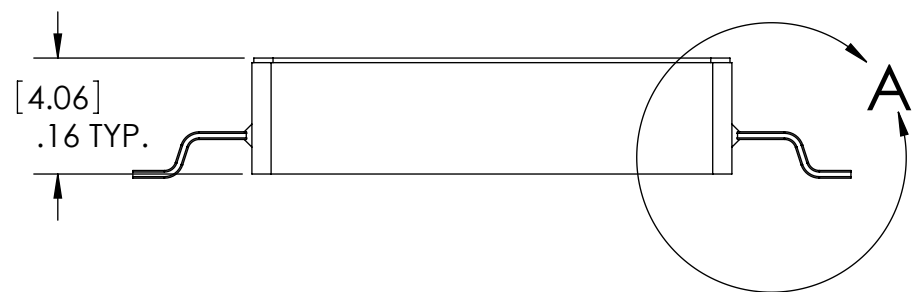
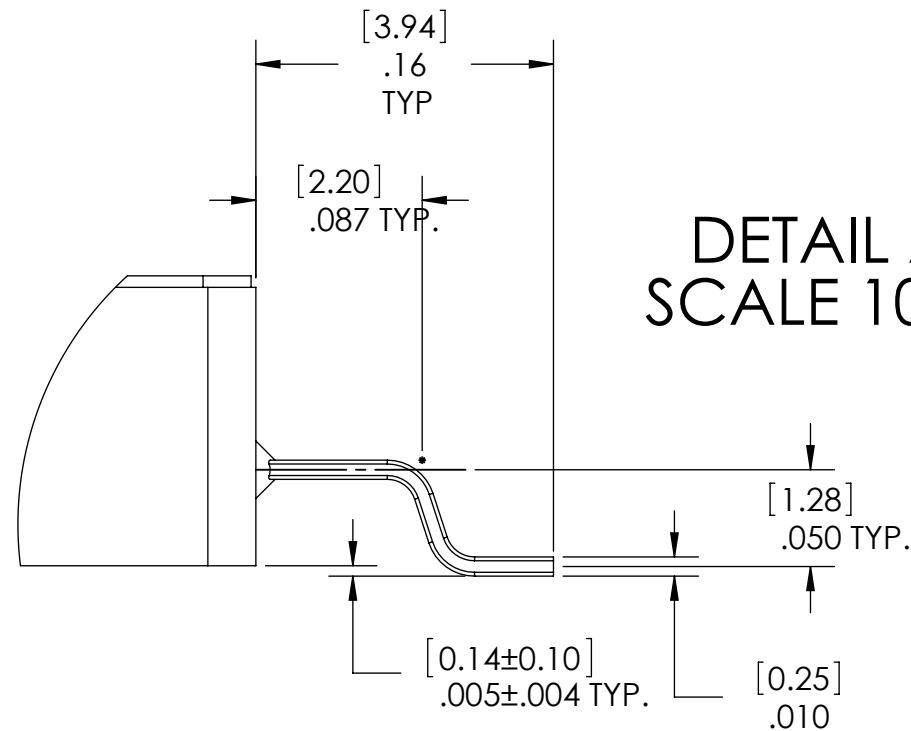
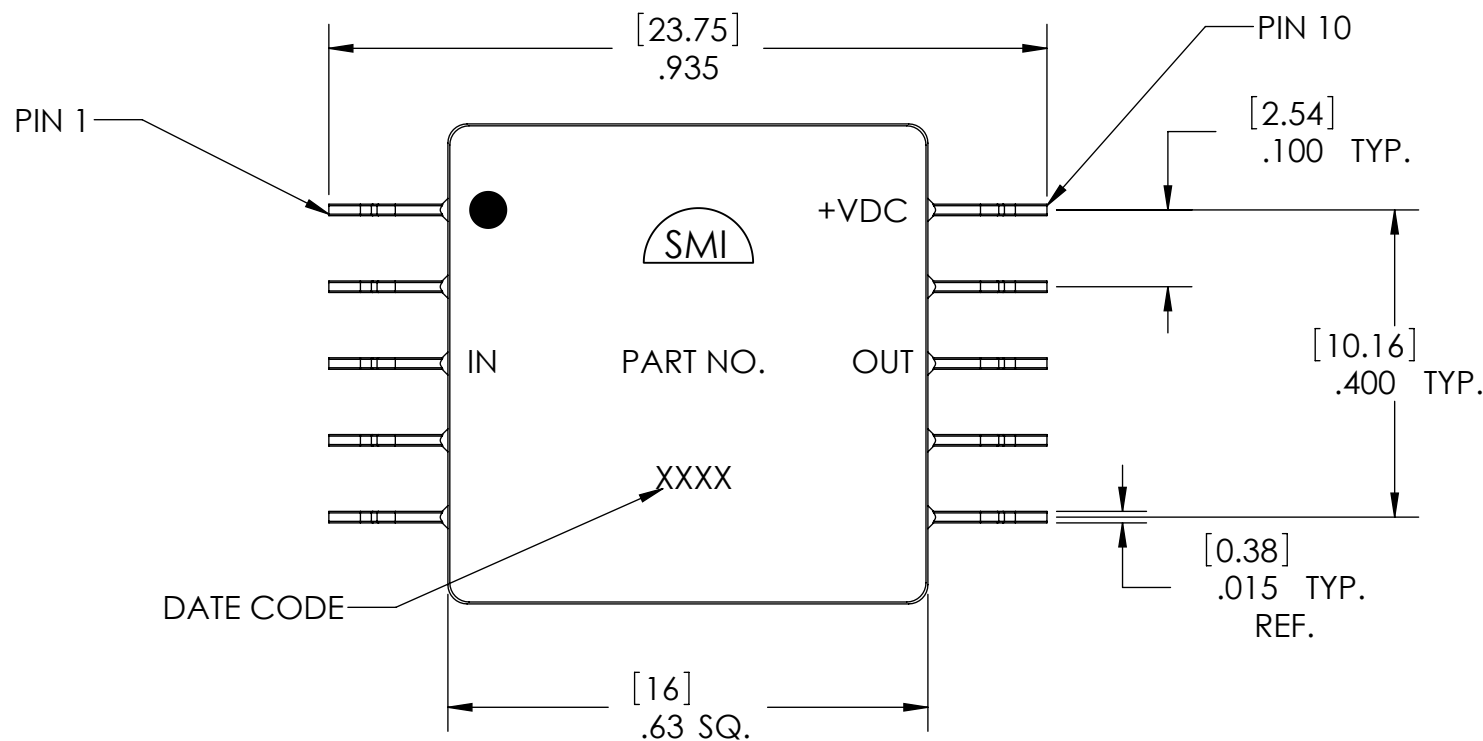
1. MATERIAL: KOVAR
2. FINISH: NICKEL/GOLD

PIN TABLE	
PIN 3	RF IN
PIN 8	RF OUT
PIN 10	DC
ALL OTHER	GROUND
CASE	GROUND

**CAUTION**

THIS ASSEMBLY CONTAINS PARTS SENSITIVE
TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).
USE ESD PRECAUTIONARY PROCEDURES WHEN
TOUCHING, REMOVING OR INSERTING

REVISIONS				
ECN	REV.	DESCRIPTION	CHNG/DATE	APPVD/DATE
--	P1	PRELIMINARY RELEASE	2012/05/14	
--	P2	TOL ADDED TO LEADS	2016/12/07	



SEE SEPARATE PARTS LIST IN ELECTRONIC STORAGE

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* INTERPRET DRAWING IAW ASME Y14.100-2004
* DIMENSIONING AND TOLERANCING IAW ASME Y14.5-1994
* PARENTHETICAL INFORMATION FOR REFERENCE ONLY
* DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
* DIMENSIONS ARE IN INCHES
* TOLERANCES ARE: ANGLES $\pm 1.0^\circ$ $\sqrt{2}$ PLACE DECIMAL $\pm .02$
* SURFACE FINISH 63/3 PLACE DECIMAL $\pm .005$
* REMOVE ALL BURRS AND SHARP EDGES .010 RAD MAX.
* CONCENTRICITY MACHINED DIA: .002 FIM
* MACHINED TOOL MISMATCH: .002 MAX.

DO NOT SCALE DRAWING

3rd ANGLE PROJECTION

ANSI



DRAWN

WAR

CHECKED

ENGRG

PH

MFG

QA

DATE

2012/05/14

2012/05/14

SPECTRUM MICROWAVE, INC

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TITLE

**OUTLINE DRAWING
SG-4**

SIZE

B

CAGE CODE

60979

DWG NO.

088-00305

REV

P2

SCALE:

4:1

SHEET

1

OF 1