Model 4258
Digitally Controlled Variable PIN Attenuator
with Built-in TTL Driver

2 to 6 GHz

NEW

RoHS

Features

- **Low Cost Design Solution**
- **Excellent Repeatability & Performance**
- **Custom Configurations Available Upon Request**
- **Highly Accurate Stepping**
- **Ruggedized Construction**

Description

This new digitally controlled PIN diode attenuator provides excellent performance in the frequency range of 2-6 GHz. Attenuation levels up to 63.75 dB are programmable in increments of 0.25 dB while maintaining continuous signal. Each unit has an integrated driver consisting of an EEPROM, D/A and V/I converter with stable attenuation from 0 to +70 °C.

Specifications

NOMINAL IMPEDANCE: 50 Ω
FREQUENCY RANGE: 2.0 to 6.0 GHz
ATTENUATION RANGE/STEPS: 0-63.75 in 0.25 dB steps
ATTENUATION FLATNESS: ±2 dB maximum
INSERTION LOSS: 4.5 dB maximum
MAXIMUM SWR: 2.0:1
POWER RATING: 20 dBm (100 mW) maximum
SWITCHING SPEED: 1 µsec maximum
OPERATING VOLTAGE: ±15 V @ 100 mA
TEMPERATURE RANGE: 0°C to + 70°C

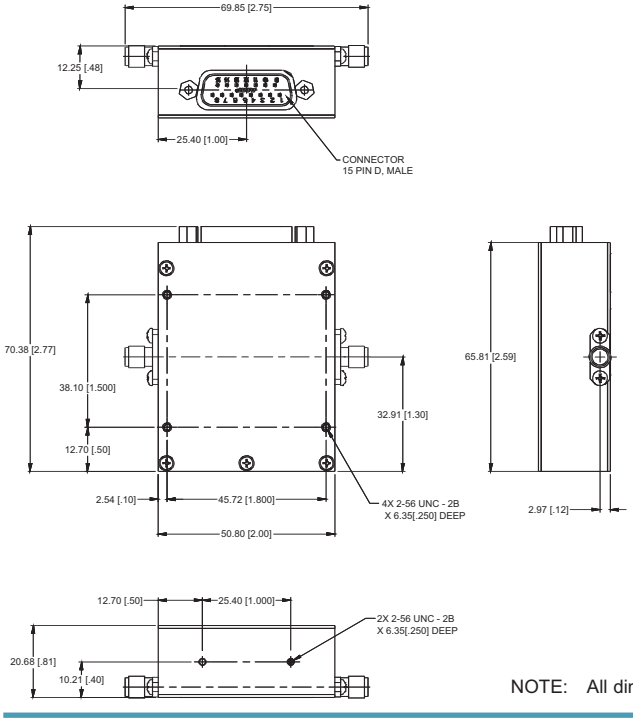
TEST DATA: Test data can be provided at additional cost.

CONNECTORS: SMA female connector - mates nondestructively with other SMA connector per MIL-C-39012, 3.5mm and other 2.92mm connector.

CONTROL CONNECTOR: 15 pin D-sub connector, mates with Cannon connector DA-15S or equivalent.

WEIGHT: 83 g (2.92 oz)

Physical Dimensions



Control Connector J3 Pin Locations:

TTL Conn PIN No. (J3)	Designation
1	0.25
2	0.50
3	1.0
4	2.0
5	4.0
6	8.0
7	16.0
8	32.0
9	NC
10	NC
11	NC
12	NC
13	+15V
14	-15V
15	GND

NC = Not Connected

NOTE: All dimensions are given in mm (inches) and are maximum, unless otherwise specified.

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