

Programmable Attenuators

Model 4258

Digitally Controlled Variable PIN Attenuator with Built-in TTL Driver

2 to 6 GHz



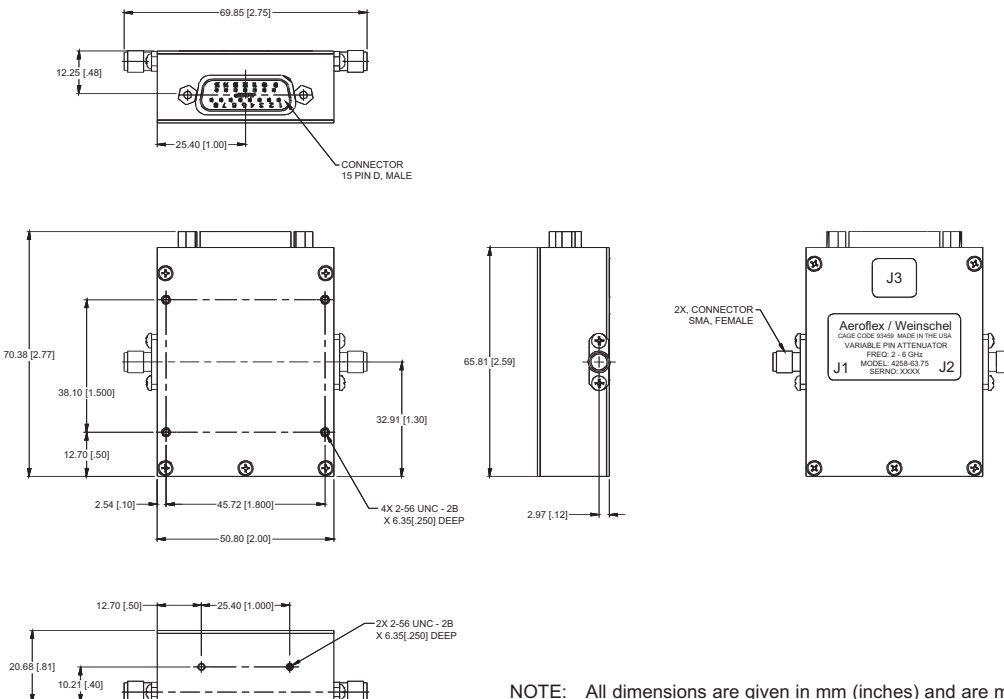
Features

- /// 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.

Physical Dimensions



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)

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.