

MICRO-S

1 - 8 GHz VARIABLE ATTENUATOR

TQ9161

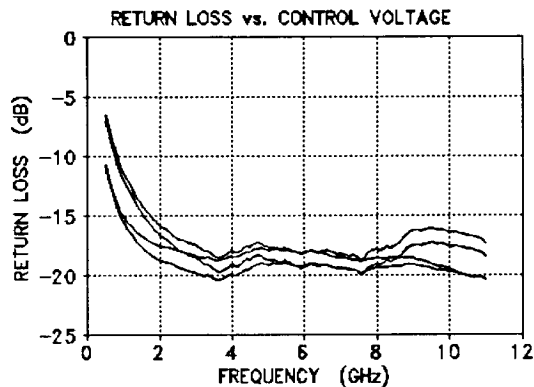
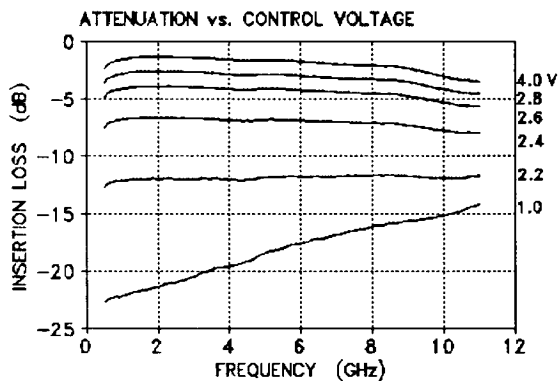
FEATURES

Broad Bandwidth	1 - 8 GHz
Min Insertion Loss	< 2 dB
Attenuation Range	> 10 dB
Input/Output VSWR	< 2 : 1
Response Time (10%-90%)	< 50 ns
Single Power Supply	

FUNCTIONAL DESCRIPTION

The TQ9161 is a voltage-controlled absorptive attenuator designed for gain compensation/control and leveling loop applications. Internal circuitry maintains good input/output return loss as attenuation is varied. On-chip DC blocking capacitors simplify system integration. The TQ9161 is available mounted in a hermetic surface mount package or in die form. Die size is 43 x 54 mils.

TYPICAL TQ9161 PACKAGED PERFORMANCE



APPLICATION NOTES

AN-002 Recommendations for Handling and Packaging TriQuint Die

AN-004 Mounting TriQuint's Micro-S Package to a Circuit Board

AN-006 Lowering the Frequency of Operation of the TQ9161 Attenuator

14-0540-B

TriQuint 
SEMICONDUCTOR
A TEKTRONIX COMPANY

Absolute Maximum Ratings

DC Characteristics at 20°C (T_C)

RF Characteristics at 20°C (T_C)

PACKAGE OUTLINE



Pins 1, 3, 5, 6, 8,
10, 11, 13, 15, 16,
18, 20 are Ground.

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