

SURFACE MOUNT-CERAMIC ATTENUATOR, PIN DIODE

150-2000 MHz

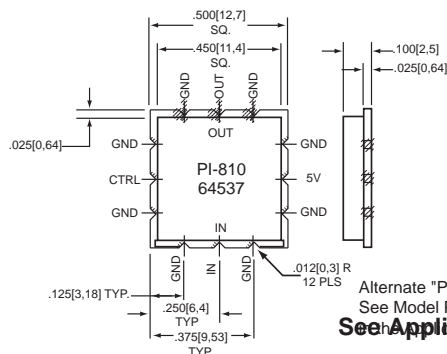
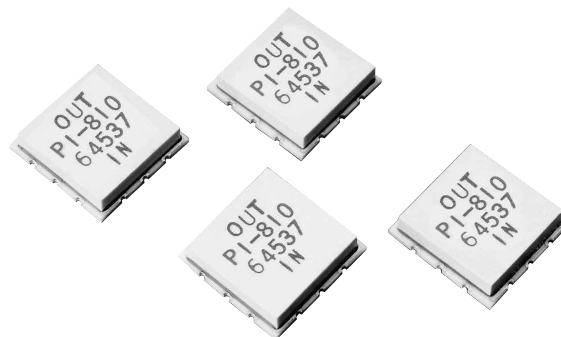
MODEL PI-810

FEATURES

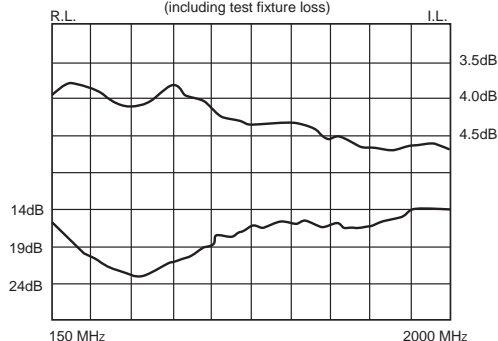
- PCS Frequency Coverage: 150-2000 MHz
- Balanced 4 Diode π Configuration Increases Attenuation and Doubles Upper Frequency Limit
- Low VSWR and Flat Attenuation Characteristics
- Silicon PIN Diodes on Ceramic Offer Improved Insertion Loss Compared to GaAs
- Superior Intermodulation Distortion Characteristics
- Inherently Compensates for VSWR and Temperature Variations
- Rugged Alumina "Surfpac" Package Ideal for Surface Mount Applications
- Can be Optimized Over Lower Frequency Ranges by Changing Capacitor Values
- BEST CHOICE for PCS and GSM Applications
- Lower Cost Alternative to PI-820 Version

ELECTRICAL SPECIFICATIONS

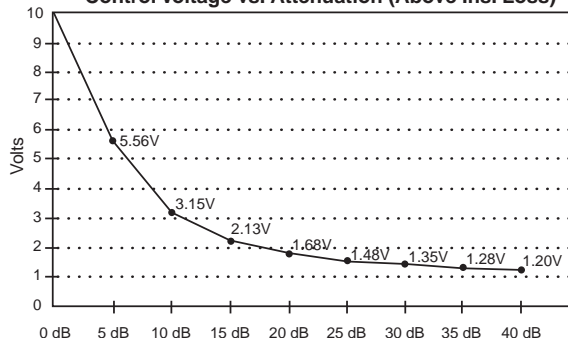
Frequency Range:	150 - 2000 MHz
Insertion Loss:	4.0 dB typical
Attenuation Range:	0 - 30 dB typical
VSWR:	1.5:1 maximum
DC Supply:	+5V DC at 20 mA maximum
Control Voltage:	0V / 10V at 15 mA maximum for Attenuation/Insertion Loss
1 dB Compression Point:	+27 dBm
Attenuation Accuracy:	+/-0.75dB to 20dB +/-1.50dB to 30dB
Temperature:	-10 to +80°C. See application note for recommended maximum reflow soldering temperatures.



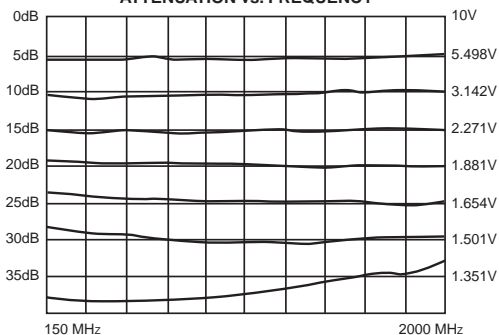
INSERTION LOSS AND RETURN LOSS
(including test fixture loss)



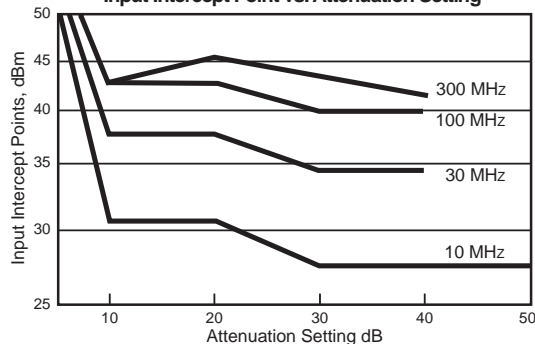
Control Voltage vs. Attenuation (Above Ins. Loss)



ATTENUATION vs. FREQUENCY



Typical Two-Tone, 3rd Order Intermodulation Distortion
Input Intercept Point vs. Attenuation Setting



KEY: Inches[Millimeters] .XX ±.03 .XXX ±.010 [.X ±0.8 .XX ±0.25]



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