

DTA-812-80-14B-SFF OPT10D27

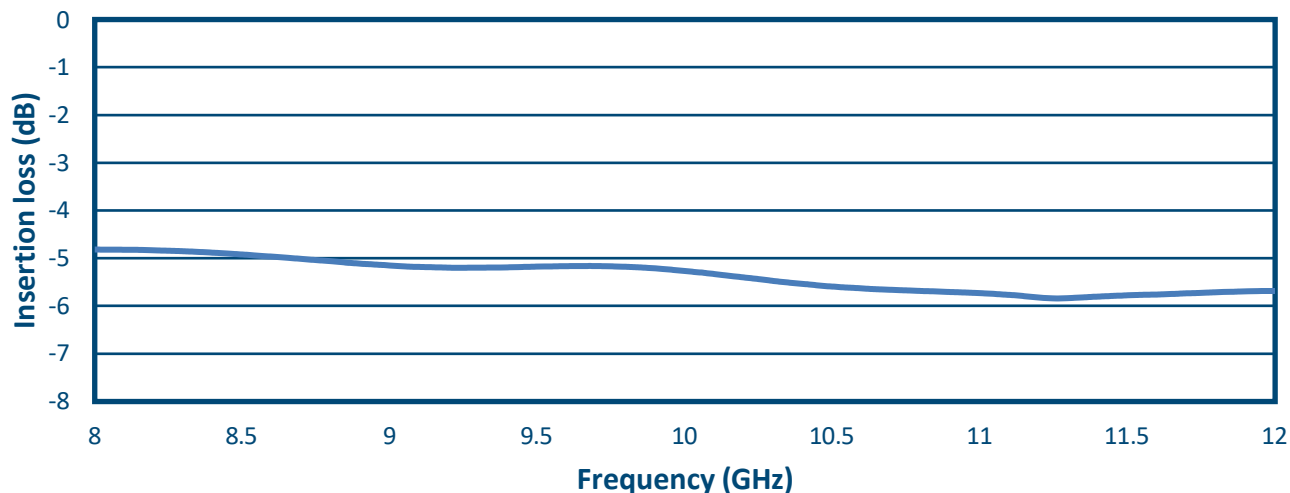
Digitally Tuned Attenuator

Quantic PMI Model No. DTA-812-80-14B-SFF OPT10D27 is a high resolution Digitally Tuned Attenuator that is designed for phased array antenna element applications and operates from 8.0 to 12.0 GHz, optimized for 10.27 GHz with an attenuation range of 80 dB in 0.005 dB steps. This unit has a survival input power level of +30 dBm; an insertion loss of 10 dB maximum; tuned using 14-bit (+3.3 V RS-422 Control) through a 37-Pin High-I Density D-Sub male connector and has SMA female connectors in a housing of 3.25" x 2.00" x 0.50".

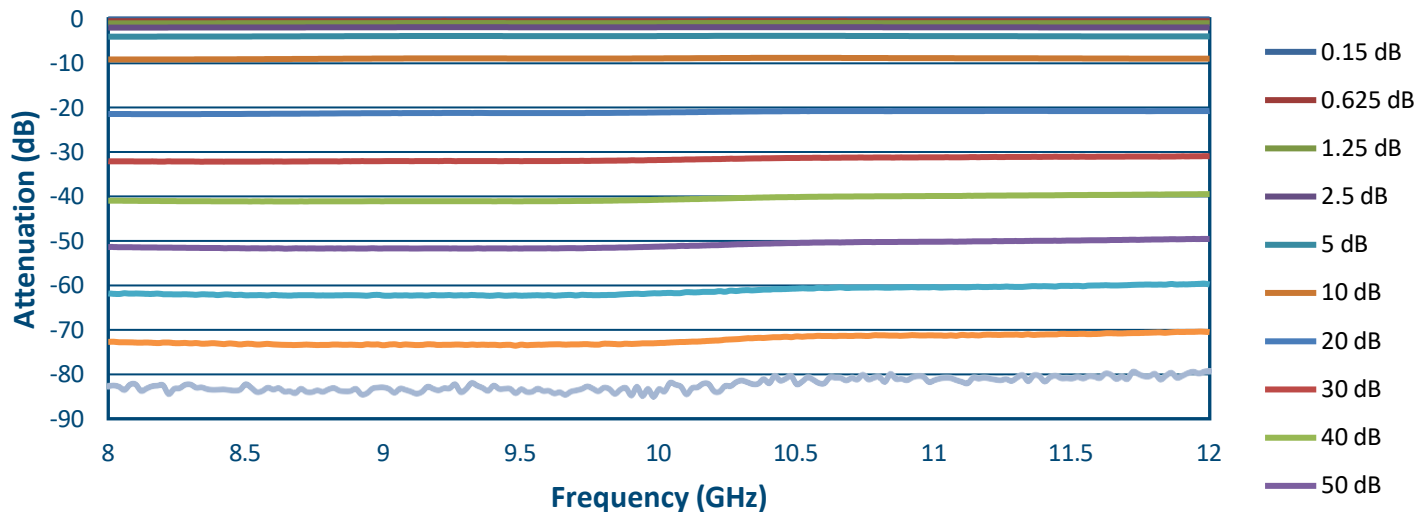


Performance

Insertion Loss



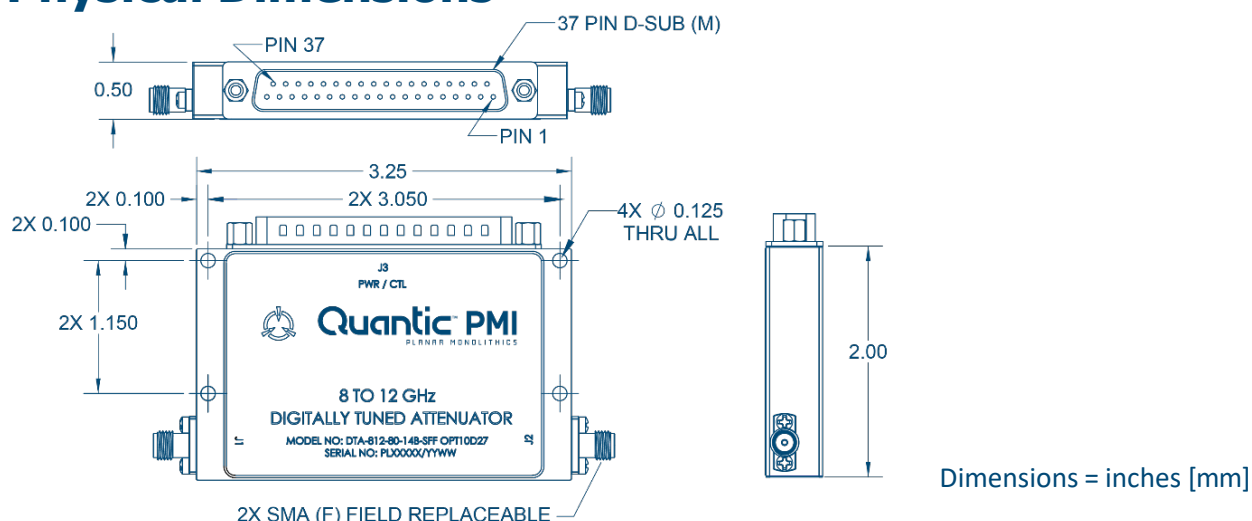
Attenuation



Specifications

Frequency Range:	8 - 12 GHz, Optimized for 10.27 GHz
Insertion Loss:	5 dB Typ, 10 dB Max
Attenuation Range:	80 dB Nom
Digital Control:	14 Bits, +3.3 V RS-422 Differential (+5 V Tolerant)
LSB:	0.005 dB
Minimum Attenuation Step:	0.005 dB
VSWR:	2:1 Max (8-12 GHz) 1.5:1 Max (10.27 +/- 0.5 GHz)
Operating Input Power:	+20 dBm
Survival Power:	+30 dBm Max
Attenuation Accuracy:	+/- 1.5 dB Max (10.27 +/- 0.5 GHz)
Power Supply:	+12 V @ 250 mA Max, -12 V @ 100 mA Max
Switching Speed:	400 ns Max
Environmental Ratings:	
Operating Temperature:	+10 °C to +30 °C
Non-Operating Temperature:	-40 °C to +85 °C

Physical Dimensions



More Information: <https://www.pmi-rf.com/product-details/dta-812-80-14b-sff-opt10d27>