



APPLICATIONS

- RF Amplifiers compensation
- RF Transceivers
- Telecom
- Frequency Synthesizers
- Cable loss compensation

FEATURES

- DC to 6 GHz
- Excellent RF performance
- Compact and low profile
- All passive architecture
- Thin-film process

Electro-Photonics EQ6-6SMT gain slope equalizer is built on alumina in a small 130 mil (3.30mm) x 130 mil (3.30 mm) SMT package and provides gain slope compensation from DC to 6GHz.

ELECTRICAL SPECIFICATIONS

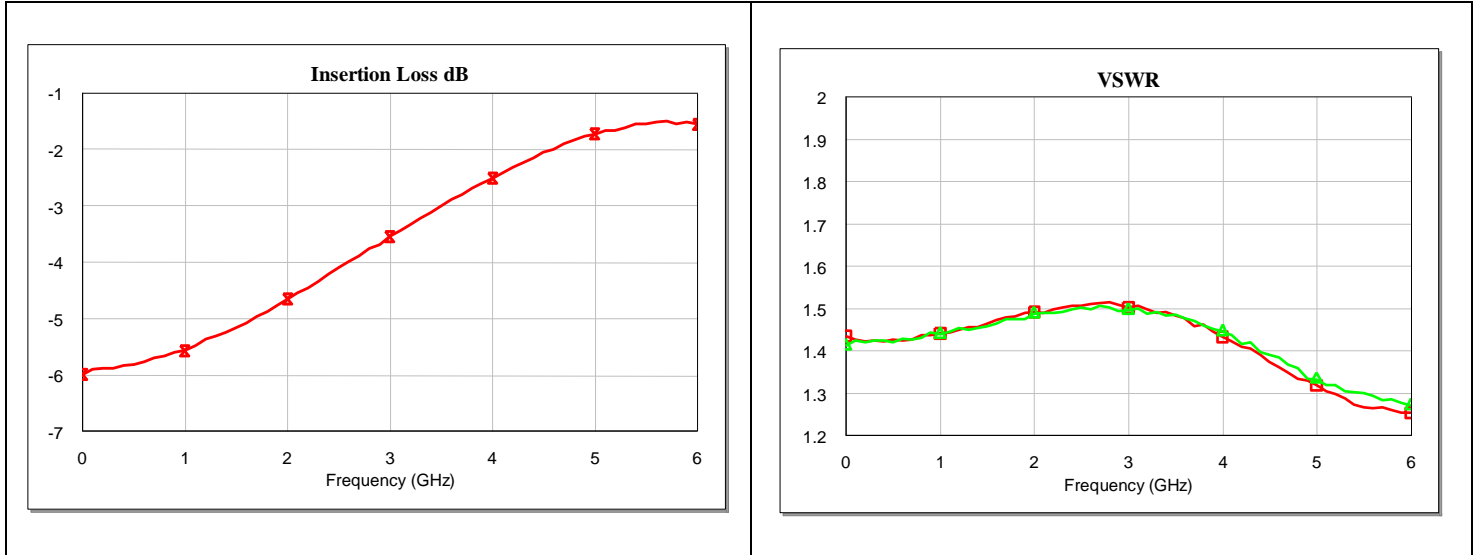
The electrical specifications apply at Ta=25°C in a 50Ω system. Typical measured data shown in Fig. 1.

PARAMETER	SPECIFICATION
FREQUENCY RANGE	DC – 6 GHz
VSWR	< 1.6:1
INSERTION LOSS	6dB @ DC and 1.5 dB @ 6GHz
INPUT POWER	0.2 W
OPERATIONAL TEMPERATURE	-55 °C to +100 °C

MECHANICAL

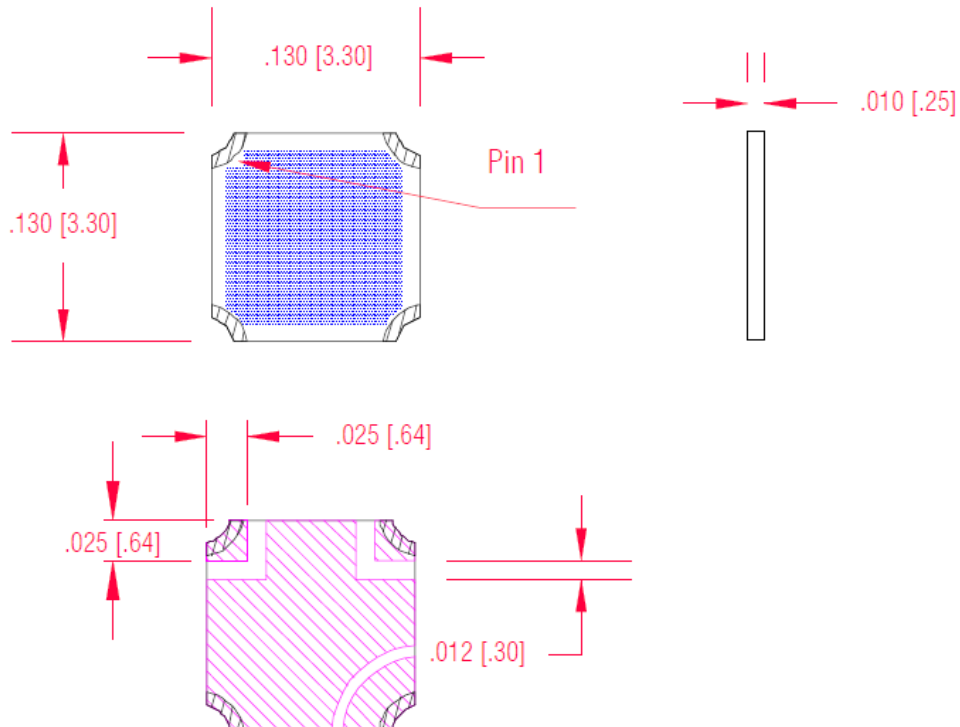
CONFIGURATION	Surface Mount
PACKAGE SIZE	130 mil (3.30mm) x 130 mil (3.30 mm)
SUBSTRATE MATERIAL	Alumina (Al2O3)
TERMINAL MATERIAL	Thin Film Solderable Gold
GROUND PLANE MATERIAL	Thin Film Solderable Gold
RESISTIVE ELEMENT	Thin Film Tantalum Nitride (TaN)

TYPICAL MEASURED DATA

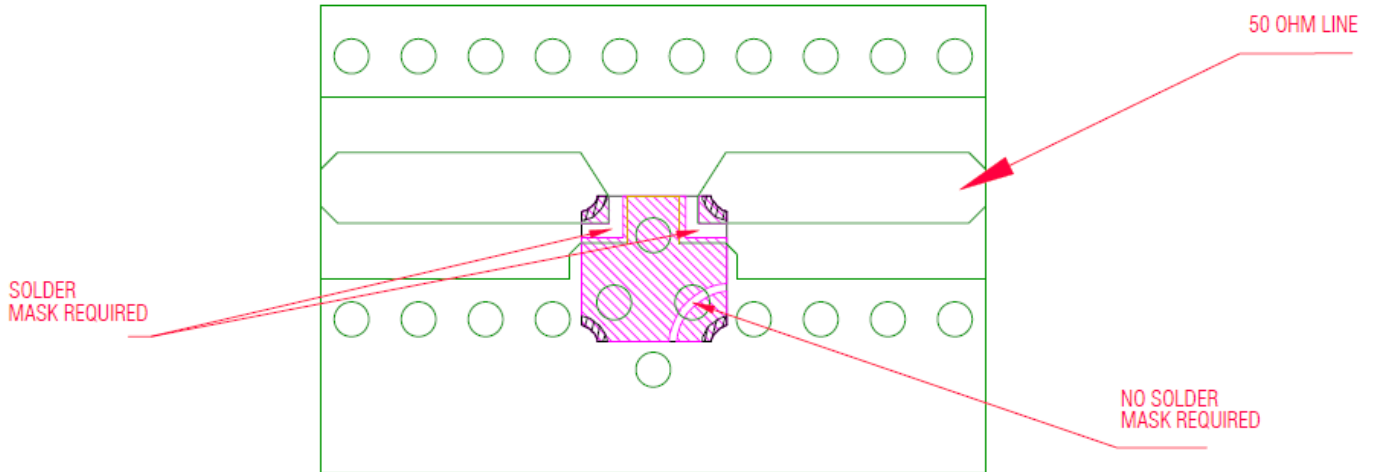


MECHANICAL

Units are inches [mm]



RECOMMENDED MOUNTING



PACKAGING

Units are packaged and shipped in waffle packs. Tape and reel available upon request.

ORDERING INFORMATION

Part Number	Loss at DC (dB)	Frequency (GHz)	Style
<i>EQ6-6SMT</i>	6	6	<i>surface mount device</i>

The EQ6-6SMT is lead free, RoHS compliant product.

