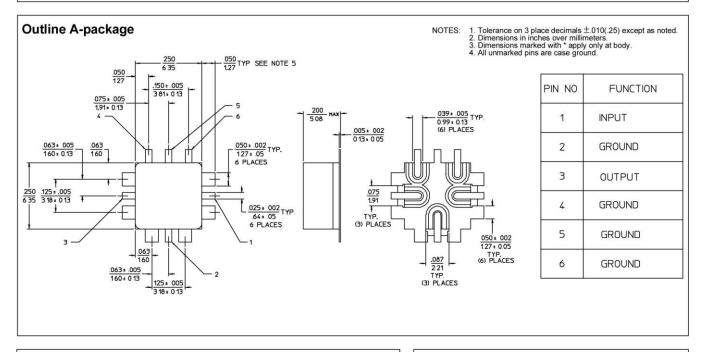
# FDG-4A-1600 - FREQUENCY DOUBLER

### **TECHNICAL FEATURE**

# **FEATURES**

- 25 to 3000 MHz
- Minimum Spurious Output
- Miniature SMD Package

PRINCIPAL SPECIFICATIONS								
Model Number	Input Frequency, MHz	Input Frequency Operating, MHz		ersion s, dB, Max.	*Typical H Out <sub>l</sub> F <sub>1</sub> dB	out,	RF Input Power, Nom.	Weight, oz (g), Nom.
FDG-4A-1600	25 - 3000	25 - 600 600 - 2500 2500 - 3000	12 12 13	14 13 15.5	-27 -18 -15	-30 -30 -20	+13 dBm	0.09 (2.5)
All specifications at nominal Input Power of +13 dBm *Typical Harmonic Level is referenced to Second Harmonic Output I							out Power, F <sub>2</sub>	



#### **General Notes:**

- 1. The FDG-4A-1600 covers the frequency range of 25 to 3000 MHz using lumped element technology for broad bandwidths and excellent rejection of fundamental and third harmonic energy.
- 2. Merrimac frequency doublers comply with the applicable sections of MIL-M-28837 and may be supplied screened for compliance with additional specifications for military and space applications requiring the highest reliability.

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# GENERAL SPECIFICATIONS

Impedance:  $50 \Omega$  nom.

Usable Input Range: +7 to 16 dBm

Input VSWR: 25 - 500 MHz: 1.3:1 typ. 500 - 3000 MHz:1.8:1 typ

Operating Temperature:  $-55^{\circ}$  to  $+85^{\circ}$ C

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