PEG-3E SERIES – PHASE SHIFTERS

Bandwidth

RF

10% of fo

TECHNICAL FEATURE

FEATURES

- Units to 500 MHz
- Continuous 0° to 180° Adjustment
- Voltage Controlled
- Low Insertion Loss

Model

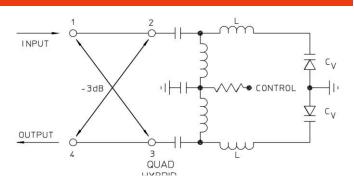
Number

PEG-3E-***B

General Notes:

passed through the hybrid.

package.



GENERAL SPECIFICATIONS

RF Characteristics	
Phase Shift Range:	180° min. @ fo
Insertion Loss:	1.75 dB max.
Impedance:	50 Ω nom.
VSWR:	1.6:1 max.
Input Power:	0 dBm max.*
Control Characteristics	
Control Voltage:	0.5 to +15 V typ.
	0.5 to +30 V max.
Modulation Rate:	1% of fo max.
General Characteristics	
Phase Stability:	0.1°/ °C
Weight, nominal:	0.32 oz. (9 g)
Operating Temp:	– 20° to +85°C
*Unit may be operated at +10 dBm in reduced	

3. These Phase Shifters are designed for high reliability and can be supplied screened to meet military and space applications.

PRINCIPAL SPECIFICATIONS

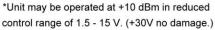
Center

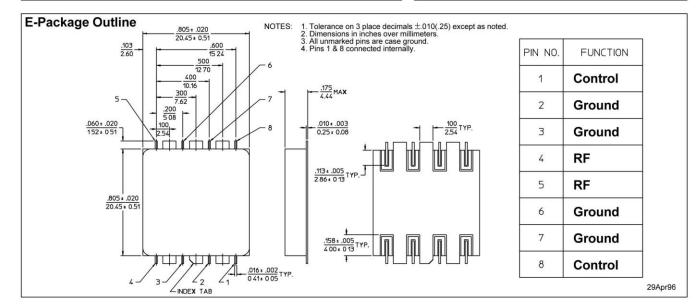
Frequency, fo, MHz

25 - 500 For complete Model Number replace *** with desired Center Frequency, fo in MHz.

1. The PEG-3E series of voltage controlled phase shifters uses a lumped element design for high performance in a space saving surface mount

2. Phase control is achieved by the application of a 0 - 15 Volt control signal which can be modulated at rates up to 1% of the RF center frequency. This signal varies the capacitance of two varactor diodes that form part of a tuned LC circuit connected across the output ports of a 90° quadrature hybrid. The change in the reactance causes a shift in the phase of an RF signal





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