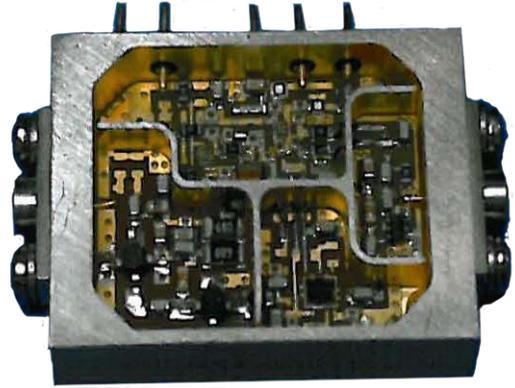


MODEL MCPL-4-9044 – MINIATURE IF SDLVA

TECHNICAL FEATURE

FEATURES

- Compact physical size
- Hermetically sealed package
- Low phase shift versus dynamic range



PERFORMANCE

Operating Frequency	500 -1250 MHz
Tangential Signal Sensitivity (TSS)	-70 dBm max
Frequency Flatness	+/- 2 dB max
Operating Dynamic Range	-65 to +5 dBm
Linearity	+1/- 1.0 dBm max
(Best fit straight line at each temperature and frequency)	
Slope.....	30 mV/dB nominal
Rise Time	20 ns max
Fall Time	35 ns max
Limited RF Output Power	+13 to +16 dBm
Insertion Phase Variation	1.2°/dB max
Power Supply	+5 VDC @ 150 mA max,
.....	-5.2 VDC @ 150 mA max
RF Connectors	GPO Male
DC Connectors	Pins
Operating Temperature Range.....	-54 to +85°C
Package Size	1.3"x 0.95"x 0.25"

DESCRIPTION

The MCPL-4-9044 Miniature successive detection log amplifier offers the combined performance of both logarithmic detection and hard limiting amplifier in a single package. The limiting amplifier feature provides exceptionally low phase shift with the varying input signal levels, making this part ideal for phase interferometric receiver applications. The device is constructed using high-reliability hybrid technology in a welded and hermetically sealed housing.

