EM-65 HIGH SPEED TRANSIMPEDANCE AMPLIFIER

GENERAL DESCRIPTION

The Model EM-65 is a transimpedance amplifier designed for high speed operation of the IR photodiodes such as the InAs or InSb series devices. It is a fixed-gain, DC-coupled unit and in its standard configuration does not provide for reverse biasing of the detector.

SPECIFICATIONS

Amplifier Gain	1000 V/A
Input Noise Current	1.5 $pA/Hz^{1/2}$
Input Noise Voltage	0.9 $nV/Hz^{1/2}$
Bandwidth	DC – 20MHz
Rise Time	~ 15nsec
Connections	SMA IN, SMA OUT, Shielded power cable with 9-pin D sub
Size	1” x 2” x 1” Plus connectors
Power Requirements	+,- 15VDC, 20mA Note: the unit will operate from +,- 5VDC to +,- 18VDC. The bias range scales in proportion.

CAUTION: DOUBLE CHECK POLARITY OF POWER SUPPLY CONNECTIONS AND PHOTODIODE PRIOR TO POWERING UP!