

LEVELERS, DIODE

SERIES LB

GENERAL INFORMATION: The Series LB Diode Levelers maintain constant output power independent of variations in input power. The output is held constant for input power variations occurring at a fixed frequency or over a band of frequencies.

The output power of these feedback levelers can be held to within 1 dB of the lowest input power. The leveling action permits the output power to be held constant with both frequency and temperature over a broad range of input power. A typical feedback leveler is shown schematically in Fig. 1.

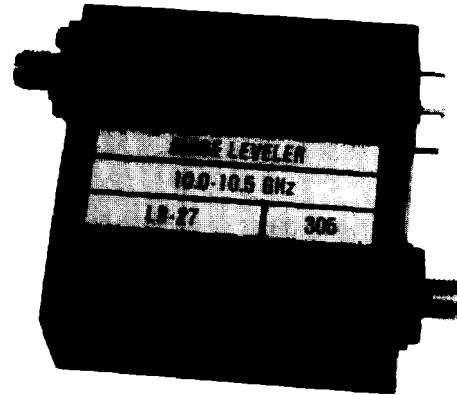
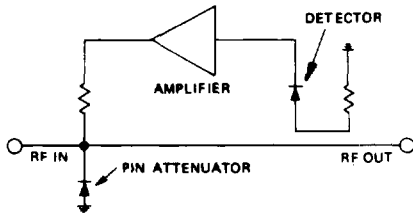


FIG. 1



FREQUENCY RANGE: 0.5 to 18.0 GHz

RF IMPEDANCE: 50 OHMS.

D.C. VOLTAGE: ± 15 VDC @ ± 60 mA

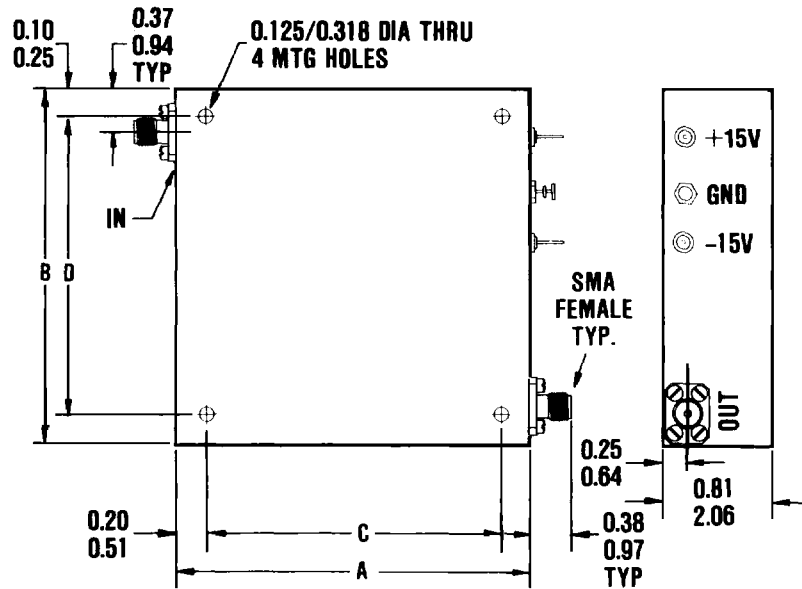
TEMPERATURE INFORMATION: Operating temperature from -55°C to $+85^{\circ}\text{C}$

ENVIRONMENT: MIL-E-5400 or Space

CONNECTORS: SMA standard, others on request.

NOTES:

1. The units listed are 3 typical examples of the many levelers built by KDI/Triangle.
2. Other models from 0.5 to 18.0 GHz are available.
3. P_{IN} min. - P_{OUT} max. = 2.0 dB min.



ELECTRICAL PERFORMANCE

MECHANICAL OUTLINES

Model No.	Frequency Range	Max. VSWR	Power Input	Power Output	MECHANICAL OUTLINES			
					A Inches cm	B Inches cm	C Inches cm	D Inches cm
LB-21	1.2 - 1.4GHz	1.4	18 ± 4 dBm	13 ± 0.2 dBm	3.00 7.62	3.00 7.62	2.600 6.604	2.800 7.112
LB-24	3.7 - 4.2GHz	1.4	15 ± 7 dBm	6.0 ± 0.5 dBm	2.00 5.08	2.00 5.08	1.600 4.064	1.800 4.572
LB-27	10.0 - 10.5GHz	1.5	26 ± 5 dBm	20 ± 0.2 dBm	2.00 5.08	2.00 5.08	1.600 4.064	1.800 4.572

INCHES/CENTIMETERS
XX \pm .03 XXX \pm .010 / XX \pm .08 XXX \pm .025