

X-BAND LEVELER

MODEL: LEV-083103

FEATURES

- Used as microwave leveling loop
- Ultra-miniaturized selfcontained AGC feedback loop
- External threshold adjust for setting desired output power
- Output power settability of ± 0.2 dB
- -45 to $+85^{\circ}\text{C}$ operation over airborne environments



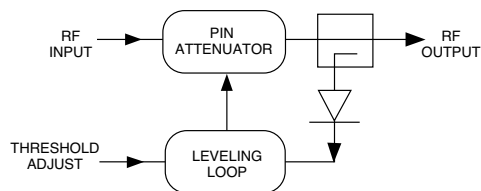
ELECTRICAL SPECIFICATIONS

PARAMETERS	LIMITS
Frequency range	8.3–10.3 GHz
Insertion loss	2.5 dB maximum
Insertion loss flatness	0.4 dB maximum
VSWR	1.5:1 maximum
Input power	23 dBm maximum
Output level adjust	-4.5 to +16 dBm
Output level flatness	± 0.2 dB maximum
Output level vs. temperature	0.5 dB maximum
Response time	Rise/fall time 100 ns, delay 200 ns maximum
Second harmonic	30 dBc maximum @ $P_{in} = 20$ dBm
Spurious	-60 dBc
DC power	15 V @ 50 mA maximum, -15 V @ 10 mA maximum
Weight	50 grams

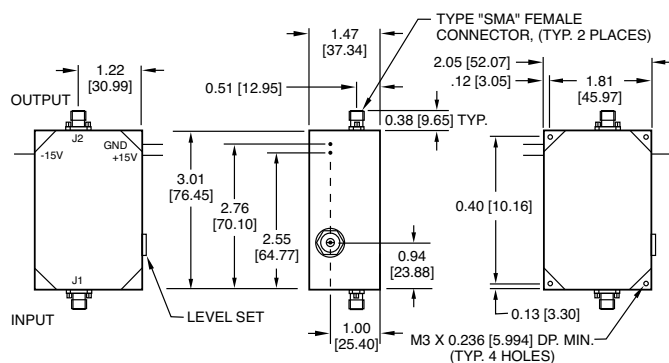
ENVIRONMENTAL CONDITIONS

Operating temperature 0 to 70°C
 Storage temperature -30 to $+85^{\circ}\text{C}$
 Humidity 95% noncondensing
 Vibration 12 g's rms, 20-2000 Hz per MIL-STD-810B Method 514, Procedure 5

FUNCTIONAL BLOCK DIAGRAM



OUTLINE DRAWING



GENERAL NOTES:

1. Dimensions shown in brackets [] are in millimeters.
2. Tolerance as follows: .xx = ± 0.01 [.xx = ± 0.25], .xxx = ± 0.005 [.xxx = ± 0.13]

