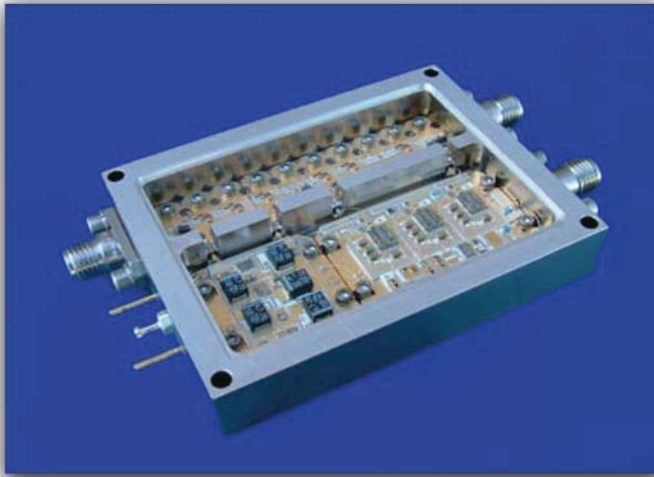


MSDA-81840
18-40 GHz Successive Detection Log Video Amplifier



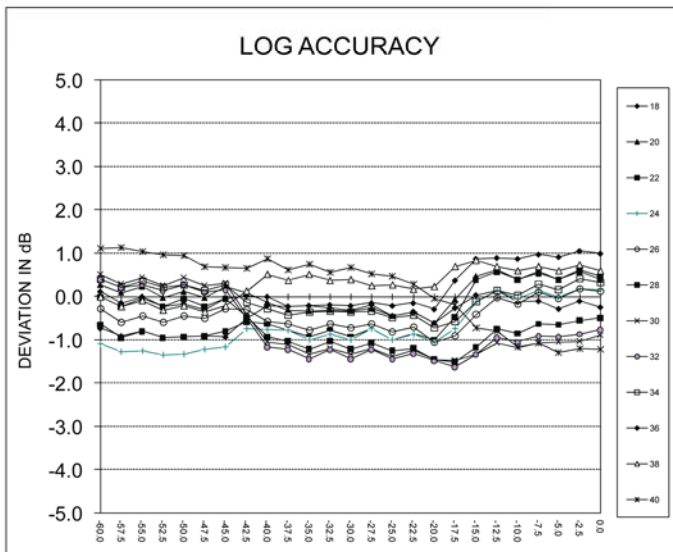
**18-40 GHz Successive Detection
Log Video Amplifier**

Applications

- Electronic Support Measures
- Electronic Counter Measures
- Radar Warning Receivers
- Signal Intelligence Receivers

Features

- Broad Millimeter Wave Frequency Coverage**
- High Dynamic Range
 - Excellent Log accuracy
 - Fast Video Response
 - Military Temperature Range
 - Hermetically sealed
 - Small Package Size
 - Reverse Voltage Protection
 - Single Bias Supply (optional)
 - Limited RF Output Power (optional)



Microsemi RF Integrated Solutions, 105 Lake Forest Way, Folsom, CA 95630

Telephone : 916-850-8600

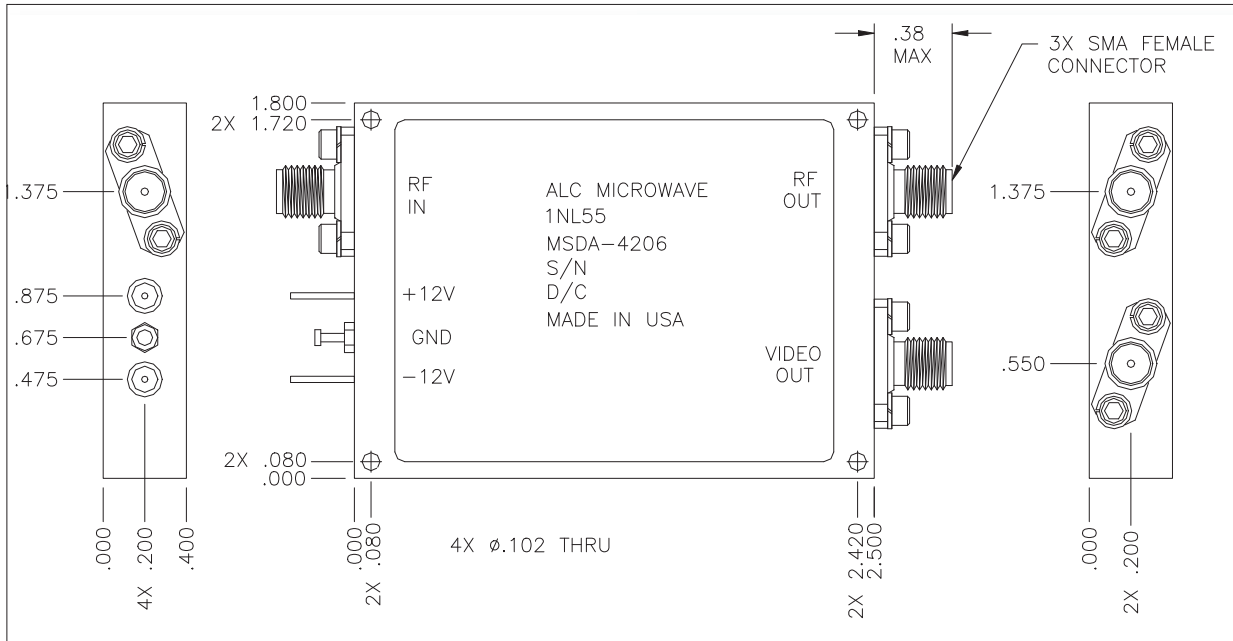
E-Mail : info@microsemi.com

www.microsemi-rfis.com



Microsemi[®]

RF Integrated Solutions



Parameter	Specification
Frequency Range	18.0 – 40.0 GHz
Tangential Signal Sensitivity (Tss)	-68 to -72 dBm
Logging Range	-65 to +5 dBm
Log Slope	15mV to 50 mV/dB Customer Specific
Logging Linearity	+/- 0.75 dB maximum
Logging Accuracy	+/- 1.25 dB maximum
Pulse Response	30 ns to CW
Rise Time	10 ns maximum (5 ns typical)
Recovery Time	60 ns maximum (40 ns typical)
Delay Time	15 ns maximum
VSWR	2 : 1 maximum
DC Power	+12 to +15 V @ 300 mA, -12 to -15 V @ 150 mA
RF Connectors	2.9mm K-Female Optional
DC Connections	0.020" diameter Solder Pins
Operating Temperature	-55 °C to +85 °C
Environmental	Compliant to MIL-STD-833, MIL-PRF-38534

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