

100MHz - 6GHz, 40dB Range, Detection Log Video Amplifier

		Standard	Limited RF Output
Part Number		ALVA-0106-40-1	ALVA-0106-40-1-RF
Parameter	Units	Specifications	Specifications
Frequency Range:		100MHz - 6GHz	100MHz - 6GHz
Logging Range:	dBm	-40 to 0	-40 to 0
TSS:	dBm	-45	- 45
Output Video Flatness vs. Freq:	dB	+/- 1.5dB max.	+/- 1.5dB max.
Output Video Impedance:	Ω	50	50
Logging Characteristics:			
LINEARITY & ACCURACY DATA AVAILABLE UPON REQUEST			
Slope:	mV	25mV/dB	25mV/dB
Linearity +25°C	dB	+/- 0.75 max.	+/- 0.75 max.
Linearity -54° to +85°C	dB	+/- 1.50 max.	+/- 1.50 max.
Accuracy	dB	+/- 2.0 max.	+/- 2.0 max.
Voltage Offset (No RF)	mV	0mV min. / 150mV max.	0mV min. / 150mV max.
Reference Voltage @ -40dBm	dB	200mV - 300mV typ.	200mV - 300mV typ.
Pulse Characteristics:			
PULSE DATA AVAILABLE UPON REQUEST			
Pulse Width Range:	ns	40ns to CW	40ns to CW
Rise Time:	ns	12 max.	12 max.
Fall Time:	ns	20 max.	20 max.
Recovery Time:	ns	60 max.	60 max.
Delay Time:	ns	15 max.	15 max.
VSWR	RF Input	Ratio :1	2.0:1
	RF Output	Ratio :1	2.0:1
Input Power Handling		dBm	+15dBm
Supply Voltage	+12 to +15	mA	400
	-12 to -15	mA	180
Operating Temperature	deg C	-54 to +85C	-54 to +85C
Storage Temperature	deg C	-54 to +125C	-54 to +125C
RF Output Power	dBm	N/A	+10 to +16
Mechanical Package Outline			DLV-1
Connector Type	RF Input/Output		SMA-F / N/A
	Video Output		SMA-F

Military Spec.

Mil-STD-883 for Hybrid Microcircuits

Hybrid screening in accordance with MIL-STD-202 or as required by customer

Finish And Labeling:

Mil-Spec Paint - Aldetec Green, Label to include Aldetec Model Number,

Date Code, Serial Number, RF, Video, and Voltage locations