

DLVA, 2 - 6GHz with built in Amplifiers

Detector Log Video Amplifier



FEATURES

- Bandwidth from 2 - 6GHz
- Has build-in dual Amplifiers with gain of 33 dB and 7 dB respectively
- Compact shape
- Separate RF and BIT input
- Input response from 100ns to CW

APPLICATION

This Detector Log Video Amplifier can be used for:

- Mono-pulse receiver
- Satellite Communications
- Early warning detection systems
- Radar systems

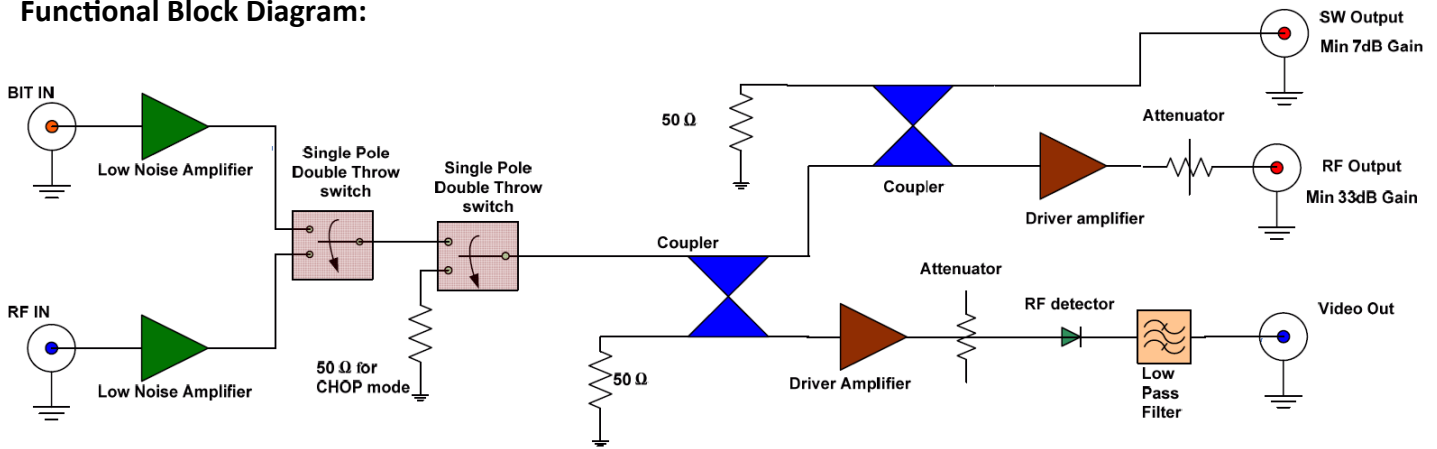
Electrical Specification (general):

Parameter	Specification	Units
Input frequency	2 - 6	GHz
RF Output Linear Gain (minimum)	33	dB
Frequency Flatness	±2	dB
SW Output Linear Gain (minimum)	7	dB
Frequency Flatness	±1.2	dB
T.S.S. (minimum)	-68	dBm
Dynamic Range	-65 to 0	dBm
Log Slope (fixed)	70	mV/dB
Log Linearity	±1.0 max.	dB
Log Accuracy	±1.5 max.	dB
DC offset @ RF input is terminated & DC power is on	0 ±70	mV
Pulse Response, Input signal	100 to CW	ns
Rise Time (max.)	25	ns
Settling Time (max.)	60	ns
Recovery Time (max.)	350	ns
Output Voltage Range	0.2 - 5	V
Video Output @ -65 dBm with:	250 ±84	mV
Frequency varying from:	2 - 6	GHz
Video Frequency Flatness (max.)	±1.5	dB
Noise Level Vp-p	<120	mV



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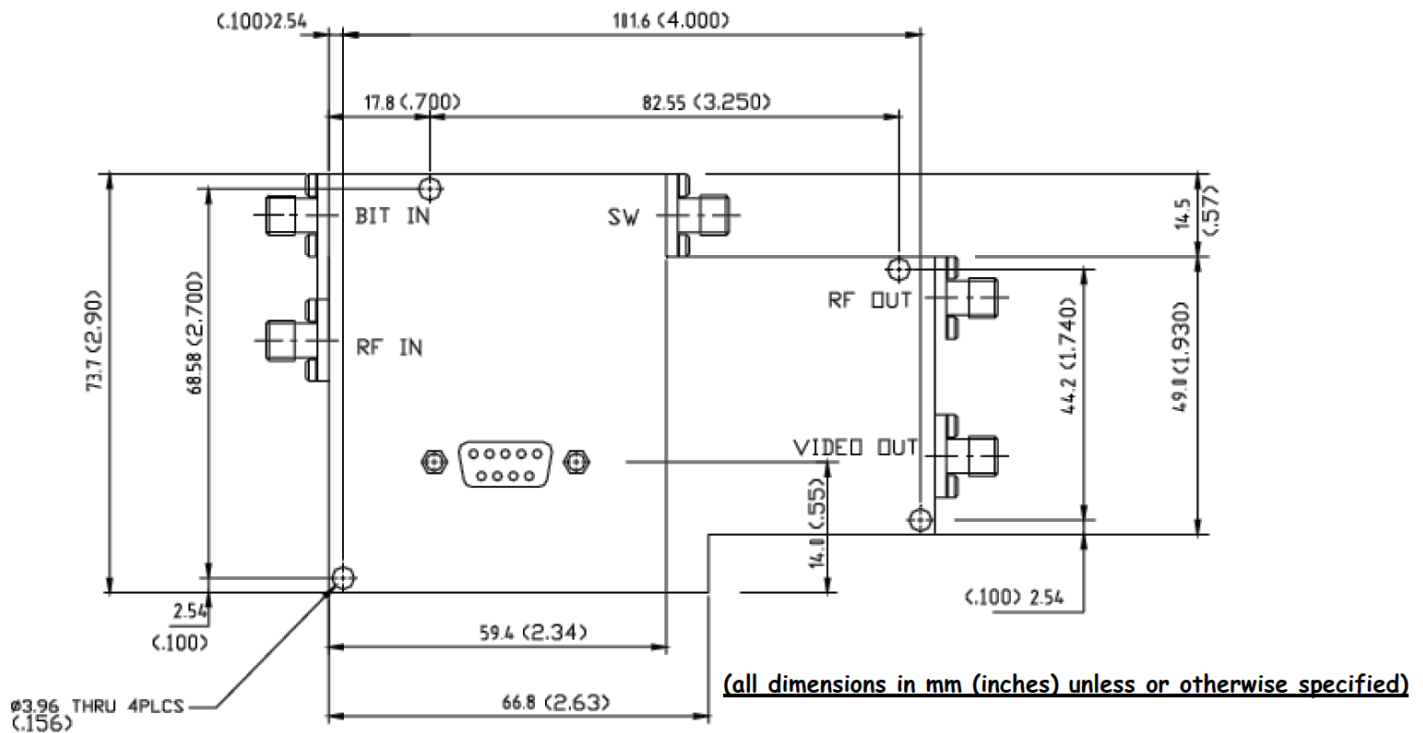
Functional Block Diagram:



I/O Connector Description:

Description	Type	Impedance
DC and control signal	9 pin D type	HIGH
BIT IN	SMA	50Ω
RF IN	SMA	50Ω
RF OUT	SMA	50Ω
SW	SMA	50Ω
VIDEO OUT	SMA	50Ω

Mechanical Dimensions:



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