



## Limiting / Detector Amplifier Specification

Customer:  
 Contact:  
 Customer Doc#: N/A

Quote#:  
 Date: 10/9/2019  
 Aldetec P/N: ALS02355  
 Rev.: -

Parameter		Units	Specifications	Comments
Frequency Range:		GHz	2.0-4.0	With Low Pass Filter
Small Signal Gain:		dB	68 - 72	@+25C
Gain Flatness:		dB	+/- .75	Exception
Noise Figure:		dB	5.0 max.	
Saturated Power :		dB	+17 to +21	
Saturated Power Variation:				
	Vs. Freq.	dB	+/- .5 max.	Fixed Temperature, for input of -40 to +10dBm.
	Vs. Input Power	dB	+/- .75 max.	
	Vs. Temp	dB	+/- .75 max.	
Input Dynamic Range		dBm	-40 to +10	
IP3		dBm	22 typical	
Threshold Detector (90-120 Ohms)		mv	-50mv min. (Negative Out)	Range -50 to -30dBm
Signal Suppression		dB	> 5	
Harmonics		dBc	13 min.	Typically <-20dBc
VSWR	Input	Ratio :1	2.0:1	
	Output	Ratio :1	2.0:1	
Input Power Handling		dBm	+18	CW
Supply Voltage		Volts	+11.4 to +15V	
Current		mA	425 max.	
Operating Temperature		deg C	-55 to +85C	
Case Type			ALS02355-OL	
Connector Type		In	SMA-F	Out SMA-F

**Finish and Labeling:**

Matt Black. Label to include Aldetec P/N  
 Serial Number, Date Code, Input/Output and Supply Voltage.

**Final Acceptance Testing**

All units to be provided with Standard Aldetec Acceptance Data: Gain, Noise figure,  
 Sat Power over Dynamic Range, VSWR In/Out , and Current at +25 deg C.

\*Certificate of Compliance provided.

