



Power Amplifier Specification

Customer:

Contact:

Customer Doc#: 1812689

Rev: E

Quote#:

Date: 10/12/2014

Aldetec P/N: ALS03670

Rev: E

Parameter		Units	Specification	Comments
Frequency Range:		GHz	9.0 - 10.5	
Small Signal Gain:		dB	42.0 Min.	
Gain Flatness:		dB	+/-1.5dB	
Noise Figure:		dB	10dB	6.0dB Typical
Output Power (Saturated)		dBm	+41.0dBm min.	With an Input of 0dBm
Output Power FWD Monitor		Volts	1.25V +/-0.25 / 1K	At rated Output Power
Output Power REV Monitor		Volts	1.25V +/-0.25 / 1K	At rated Output Power, Note 2
VSWR	Input	Ratio :1	1.8:1	
	Output	Ratio :1	2.0:1	
Input Power Handling		dBm	+10dBm Max.	
Maximum Pwr into Output		dBm	+43dBm CW Max.	+56dBm Pulsed (10uS, 1% DC)
"On/Off" Logic Control		TTL	"0" = On / "1" = Off	
Switching Speed		ns	120 ns max.	112ns Typical
Isolation		dB	40dB Min.	
RF In to RX In Coupling		dB	60dB +/-2.0dB	Bypass
Rx / RF out Insertion Loss		dB	1.8dB Max.	
EMI Leakage		dBuV	95dBuV Max.	In accordance with Mil-STD-461F With output terminated
Supply Voltage		Volts	+10.5 +/-0.5V	
Current		A	7.5A Max. "On"	0.2ma Max. "Off"
Power Consumption		W	78 Watts OdBm Input	1.8W Max. "Off" State
Operating Temperature		deg C	-40 To +85C	Note 1
Storage Temperature		deg C	-55 To +85C	
Case Type			ALS03670	Max. Weight 13 Ounces
Connector Type		In /Out	SMA-F	
		DC	Solder Connection	On/OFF Control

Notes:

- 1) Base plate Temperature above +70C Expose Power Devices beyond 20% De-Rating
- 2) With No Load on RF Output or RX Ports.