



Model Number Ku5942

SSPA/LNA and Diplexer

Reva
07/10/12

Features:

- RF Power Set Point
- AGC
- Power Detector
- Temp Sensor
- SSPA Blanking

Applications:

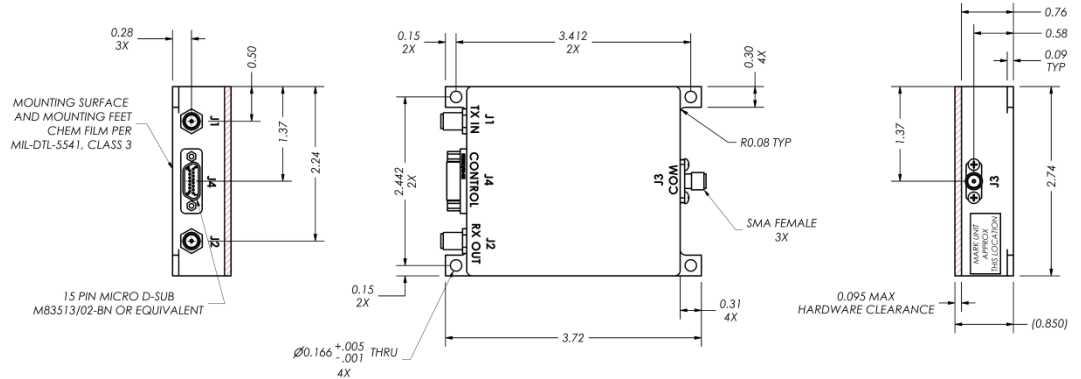
- SATCOM
- Lab Equipment

Operating Temp Range

- -40 to +85C

Package Size:

- 3.72"x2.74"x0.85"



Specifications at +25°:	Rx Channel	Tx Channel
Passband	14.4 to 14.83 GHz	15.15 to 15.35 GHz
Gain over Temp	28.5 dB to 32.5 dB	AGC (adequate gain to maintain P1 +34 dBm over 0 to +13.5 dBm)
VSWR	1.50:1 max	1.50:1 max
P1 dB Compression	+12 dBm min / +15 dBm typ	+33.5 dBm min
Spurious	-60 dBc min	-40 dBc min
Max Non-Damaging Input	0 dBm	+17 dBm
Input Power Range	-96 dBm to -34 dBm	-10 dBm to +13.5 dBm
Noise Figure	3.8 dB max (@+85C)	-
Tx to Rx Isolation	110 dBc min	
Current	3.2 A max	
Current in Blanking Mode	0.5 A max	
Voltage	8.0 VDC to 8.8 VDC	
RF Power Set-Point (AGC)	+29 to +35dBm output power control range ±0.5 dB max accuracy at a fixed set-point voltage over frequency and temperature	



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Written By _____ Approved By _____



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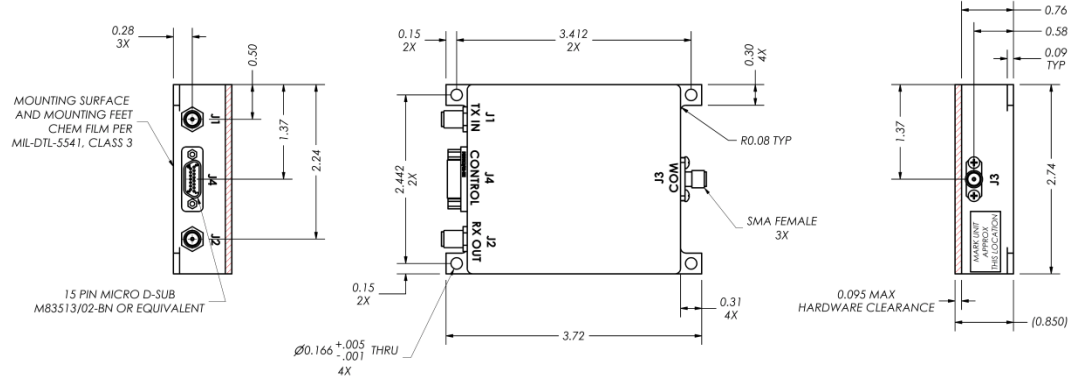
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Specifications at +25°:

	0 to 5 VDC output		
	+29 dBm to +35 dBm operational range		
RF Power Detector	±0.5 dB max accuracy over frequency and temperature		
Temperature Sense	Temperature monitor outputs a DC current proportional temperature, with a nominal temperature coefficient of 1µA/K		
SSPA Blanking	Rx channel remains operational during Tx channel blanking. For fail-safe operation, the SSPA provides an internal pull-up resistor on the blanking input		
Blanking Control	Parameters	Logic Family/State	Logic Voltage Level
	RF Off Mode	LV CMOS: high	2.0 to 3.6 VDC
	RF On Mode	LV CMOS: low	0 to 0.8 VDC
Blanking Response Time	1.0 msec max RF On/Off		
RF Blanking Levels	RF output in Off Mode 60 dBc suppressed relative to On Mode		



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