

	Range	Units	Notes
Electrical Specifications			
Frequency	7.90-8.40	GHz	
Gain	48 min., 52 typ.	dB	-40 dB nom. Sample Port Included
Gain Flatness	+/-1.00 max.	dB	per full band
Gain Slope	+/-0.2 max.	dB	per 40 MHz
Stability over temperature	+/- 2.0	dB	
Gain Adjust			
P _{1dB}	+46.0min	dBm	
P _{sat}	47.3 typ.	dBm	
Third Order Intermodulation Distortion	-25 max.	dB	@ 3 dB backoff relative to rated P _{1dB}
Noise Figure	12 nom.	dB	
Input VSWR	1.30 typ., 1.50 max.	:1	
Output VSWR	1.25 typ., 1.30 max.	:1	Isolator Included
Overdrive	+0 max.	dBm	non-damaging
Spurious, Signal Related (@ rated output)	-60 max.	dBc	within rated output band
Spurious, Signal Independent (@ rated output)	-60 max.	dBc	outside of band
M&C Function	Mute, Temp. Monitor, Fault		
Power Requirement			
Input Voltage	+24 nom. (+18 to +36)	vdc	+48 vdc optional
Power	270 nom.	watts	
Mechanical Specifications			
Size (approximate)	11.0 x 6.80 x 5.25	inches	L x W x H
Weight	13 nom.	lbs.	
Finish	epoxy paint		specify: white, green or tan
Connectors			
RF Input, Sample Output	Type N	Female	
RF Output	WR112 Cover Flange		
Power (J3)	MS3474W14-4P		
Control/Alarm (J4)	MS3114E14-18S		
Environmental			
Operating Temperature	-40 to +50	°C	
Humidity	100	%	with condensation

PIN ASSIGNMENT; J3		
PIN	FUNCTION	DESCRIPTION
A	+24/48 vdc	DC MAINS IN
B	+24/48 vdc	DC MAINS IN
C	+24/48 vdc rtn	DC MAINS RTN
D	+24/48 vdc rtn	DC MAINS RTN

PIN ASSIGNMENT; J4		
PIN	FUNCTION	DESCRIPTION
A	MUTE IN	active high, +5 vdc @ 20mA, opto-isol.
B	TEMP OUT	analog output, 0.67 vdc @ +25 °C, Tc = +6.45 mV/°C; into 10k Ω load
C		
D		
E		
F	SSPA FAULT	active high, +5vdc (TTL)
G	GND	Chassis
ALL OTHERS	UNUSED	NC

Specifications are subject to change at the discretion of Locus Microwave, Inc.

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