

This item is subject to International Traffic in Arms Regulations (ITAR) and is classified as 22 CFR, Part 121, Category XI (a) (5) per United States Munitions List (USML). Compliance with the Department of State ITAR is required for export of this item.

	Range	Units	Notes
Electrical Specifications			
Frequency	7.90-8.40	GHz	
Gain	48 min., 52 typ	dB	-40 dB nom. Sample Port Included per full band per 40 MHz
Gain Flatness	+/-1.00 max.	dB	
Gain Slope	+/-0.2 max.	dB	
Stability over temperature	+/- 2.0	dB	
Gain Adjust			
P_{1dB}	+46.0 min.	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	
Group Delay			
Linear	0.01 max.	ns/MHz	
Parabolic	0.003 max.	ns/MHz ²	
Ripple	1.0 max.	ns p-p	
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 option
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. (5.9)	lbs. (kg)	
Finish	white epoxy paint		green or tan option
Connectors			
RF Input, Sample Output	Type N	Female	J1
RF Output	WR112		J2
Power	MS3474W14-4P		J3
Control/Alarm	MS3114E14-18S		J4
Environmental			
Operating Temperature	-40 to +60	°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 ? 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.

09/10