

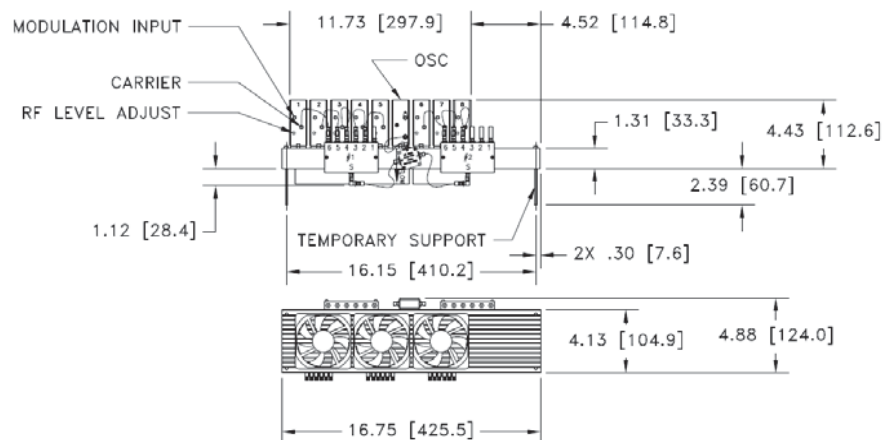
SPECIFICATIONS

Modulation Input

Input Impedance	50 Ohms
Analog Input (SMB)	0 to +1.0 VDC

RF Output

Center Frequency (Fc)	250 MHz $\pm$ 0.1%
Output Power	2.5 W
Rise/Fall Time	10 nsec
RF Contrast Ratio	35 dB min
Harmonic Distortion	-20 dBc
Output Impedance	50 Ohms
Output VSWR	1.5 : 1 Max
Output Connector	SMA
Power Supply Voltage	+28V @ 7.5A
Operating Temperature Range	0 < Ta < 70° C
Number of Channels	8



1. The slope of the RF output power vs. the input signal voltage curve shall be non-zero and positive at all points between 0 and +1.0 Volts input, inclusive.
2. Output power factory set to 2.5W at +1.0 Volt input. Power stability less than 5% over the heat sink's ambient temperature range of 0 - 70° C, after 5 minute warm-up.
3. When input voltage is stepped down from one level to a lower (non-zero) level, the subsequent ripple on the RF output power shall be less than 0.2% p-to-p of the initial value.
4. When calculating the contrast ratio, it is understood that only the power of the 250 MHz fundamental shall be used. The higher harmonics have no effect on the AO modulator's performance.
5. Common RF output level set by oscillator master adjust. Individual channel RF level independently adjustable with vernier adjust. Individual channel output adjustments may require adjustment of associated null.
6. Contrast Ratio to be achieved with additional 7 channels "on".

Document

04/14/21

Control

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TOLERANCES: .XX $\pm$.01 .XXX $\pm$.005	DR	TOM NG 4/5/2021			
MATERIAL:	CHK		DESCRIPTION: AODR MC250 RFHIC 8CH, 250MHz		
FINISH:	APP		PART NUMBER:	REV:	
	APP		97-02903-08	A	1 of 1

