

SPECIFICATIONS

Modulation Input

Input Impedance
Analog Input (SMB)

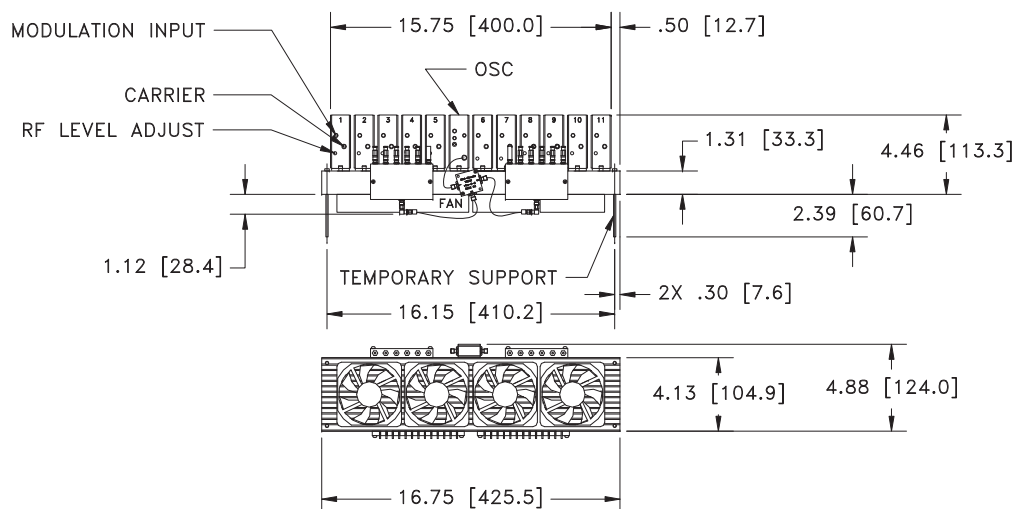
50 Ohms
0 to +1.0 VDC

RF Output

Center Frequency (Fc)
Output Power
Rise/Fall Time
RF Contrast Ratio
Harmonic Distortion
Output Impedance
Output VSWR
Output Connector
Power Supply Voltage
Operating Temperature Range
Number of Channels

220 MHz $\pm$ 0.1%
2.5 W
11 nsec
35 dB min
-20 dBc
50 Ohms
1.5 : 1 Max
SMA
+28V @ 9.7A
0 < Ta < 70° C
11

OUTLINE DRAWING



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 220 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 10 channels "on".

Document

07/09/19

Control

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TOLERANCES: .XX $\pm$.01 .XXX $\pm$.005	DR	TOM NG 6/24/2019	Gooch & Housego		
MATERIAL:	CHK		DESCRIPTION: AODR MC220 RFHIC 11CH, 220MHz		
FINISH:	APP		PART NUMBER: 97-02903-04		
	APP		REV: A	1 of 1	