

TECHNICAL DATA AND SPECIFICATIONS

DRAKE VMM860 FIXED CHANNEL MODULATOR

10073XX

RF:

Frequency Range:	600 through 864 MHz
Frequency Selection:	Set at factory to one of the following channels: Cable Channels 1 through 87 through 135 or UHF TV Channels 36 through 69
Output Level:	+ 45 dBmV minimum, Adjustable over a 12 dB range
Output Impedance:	75 Ohms, return loss of 12 dB
A/V Ratio:	Audio Carrier - 10 to - 22 dB referenced to video carrier, adjustable
Frequency Stability:	± 5 kHz (Visual Carrier)
Inter-carrier Frequency:	4.5 MHz, ± 50 Hz
FCC Frequency Offsets:	All aeronautical channels are offset positive
Spurious Outputs: 54 to 1000 MHz	- 65 dBc, measured at - 15 dB A/V ratio and with modulator output level of ± 45 dBmV
Broadband Noise:	- 95 dBc, referenced to video carrier. (4 MHz BW and ± 36 MHz offset)

Video:

Input Level for 87.5% Modulation:	1 Vp-p ± 3 dB, manual gain adjustable with front panel control
Input Impedance:	75 Ohms, return loss of 18 dB minimum
Frequency Response:	20 Hz to 4.2 MHz, ± 1 dB
Video S/N:	65 dB minimum, luminance weighted
Differential Gain:	± 3% (10 to 90% APL)
Differential Phase:	± 3 degrees (10 to 90% APL)
C/L Delay:	Within 50 nSec. Of 0 nSec. (standard), or FCC predistortion, (option)

Audio:

Input Level for 25 kHz Peak Deviation:	100 mV to 2.5 Vrms, manual gain adjustment with front panel control
Input Impedance:	10 K Ohms, unbalanced
Pre-emphasis:	75 µS. (Defeatable via jumper for BTSC baseband stereo compatibility)
Frequency Response:	40 Hz to 15 kHz, ± 1.0 dB referenced to 75 µS pre-emphasis curve (40 Hz - 100 kHz ± 0.5 dB if pre-emphasis is defeated)
4.5 MHz Inter-carrier Stability:	± 50 Hz, frequency synthesized
Total Harmonic Distortion:	0.5% maximum
Hum and Noise:	-65 dB minimum, referenced to 25 kHz peak deviation

General:

DC Power Input:	+ 12 VDC @ 150 to 220 mA, + 5 VDC @ 75 to 100 mA channel dependant
Operating Temperature:	0° to 50° Celsius
Dimensions:	3.5" H X 1" W X 7.5" D
Weight:	11 oz.

Specifications, price, and availability are subject to change without notice or obligation.