

**THE MICRO PHASE COMMUNICATION  
MP-4030 FM AUDIO  
SUB-CARRIER MODULATOR  
PLUG-IN CARD  
SPECIFICATIONS**

**OUTPUT CHARACTERISTICS**

OUTPUT FREQUENCY	5MHz to 8.5MHz
AGILITY	1kHz step size
SPECTRAL PURITY	1) Non-harmonic - better than -55dBc 2) Harmonic - better than -45dBc
MAXIMUM OUTPUT CARRIER LEVEL	33mV bridged across 75 ohm system
OUTPUT IMPEDANCE	3K ohm
VIDEO INJECTION ADJUST RANGE	10dB (front card adjust)
CARRIER ON/OFF RATIO	50dBc
FREQUENCY STABILITY	5ppm per year 5ppm during first month 7ppm from 5°C to 55°C
FREQUENCY ADJUST	Internal trimmer capacitor
LEVEL STABILITY	±.25dB (10°C to 40°C)
OUTPUT CONNECTOR	Rear-edge card connector

**MODULATION CHARACTERISTICS**

MODULATION FREQUENCY	50Hz to 3.4kHz (optional) 50Hz to 7.5kHz (optional) 50Hz to 15kHz (standard) 50Hz to 20kHz (optional)
FREQUENCY RESPONSE DEVIATION	±0.2dB, 50Hz to 20kHz [see note (1)] ±75kHz (peak) nominal ±200kHz (peak) maximum
THD	0.25%, 50Hz to 15kHz [see note (1)]
SIGNAL TO NOISE DEVIATION ADJUST	>70dB (ref to 75kHz pk 50Hz to 15kHz) ±5dB range (front card adjust)
AUDIO INPUT LEVEL	+18dBm, max
AUDIO INPUT IMPEDENCE INPUT CONNECTOR	600 ohm, balanced Rear-edge card connector

Note (1) Excludes compander

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**FRONT-PANEL CONTROLS**

PCB MOUNT THUMBWHEELS	* 1kHz,10kHz,100kHz, 1MHz freq steps
SWITCHES	* CXR ON/OFF
ADJUSTMENTS	* Injection level (Carrier Power) * Deviation adjust
INDICATORS	* CXR ON/OFF  * POWER-ON LIGHT

**GENERAL SPECIFICATIONS**

POWER	±15V @150mA
SIZE	WEGENER COMPATIBLE
MOUNTING	19" WEGENER RACK-MOUNT



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