

THE MICRO PHASE COMMUNICATION
MP-1040 OPTION 16
FM AUDIO MODULATOR
SPECIFICATIONS

OUTPUT CHARACTERISTICS

OUTPUT FREQUENCY	43MHz to 97MHz
AGILITY	10kHz step size
SPECTRAL PURITY	1) Non-harmonic - better than -60dBc 2) Harmonic - better than -40dBc
MAXIMUM OUTPUT CARRIER LEVEL	0dBm/75 ohm
OUTPUT LEVEL ADJUST RANGE	0dBm to -10dBm (front panel adjust)
CARRIER ON/OFF RATIO	50dBc
FREQUENCY STABILITY	5ppm per year 5ppm during first month 7ppm from 5°C to 55°C
FREQUENCY ADJUST LEVEL STABILITY	Internal trimmer capacitor ±.25dB (10°C to 40°)
OUTPUT CONNECTOR	Rear BNC (female) connector
OUTPUT CARRIER MONITOR	Front-panel BNC (female)

MODULATION CHARACTERISTICS

COMPANDERED	2:1
EMPHASIS	150uS (strappable)
MODULATION FREQUENCY	50Hz to 3.4kHz
FREQUENCY RESPONSE	±0.5dB, 50Hz to 3.4kHz [see note (1)]
DEVIATION	±15kHz (peak) for -16dBm input/3.4kHz input
THD	0.1%, 50Hz to 20kHz [see note (1)]
SIGNAL TO NOISE	>50dB (ref to 75kHz pk 50Hz to 15kHz)
DEVIATION ADJUST	±5dB range (front panel adjust)
AUDIO INPUT LEVEL	-16dBm to 0dBm, max
AUDIO INPUT IMPEDENCE	600 ohm, balanced
INPUT CONNECTOR	Removable terminal block

Note (1) Excludes compander distortion

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FRONT-PANEL CONTROLS

KEY PAD	* NUMERIC KEYS * FUNCTION KEYS for FREQUENCY SELECT CHANNEL SELECT CARRIER ON/OFF LOCAL SELECT ENTER LOAD (frequency)
INDICATORS	* FOUR-DIGIT LED DISPLAY * LIGHTED FUNCTION KEYS for CXR ON/OFF LOCAL/REMOTE * POWER-ON LIGHT

INTERFACES

Remote Capability	* All front-panel controls
Control Bus	* RS232 port for external control
Local Bus	* RS422 port for linking units together

GENERAL SPECIFICATIONS

POWER	100V, 120V, 220V, 240V \pm 10% AC 50/60Hz 50 Watts
SIZE	1.75"H x 17"W
MOUNTING	19" rack-mount



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