

THE MICRO PHASE COMMUNICATION
MP-1040 AGILE 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/50 ohm 0dBm/75 ohm (optional)
OUTPUT LEVEL ADJUST RANGE	0dBm to -10dBm (front panel adjust)
CARRIER ON/OFF RATIO	50dBc
FREQUENCY STABILITY	5ppm per year 5ppm during 1st month 7ppm from 5°C to 55°C
FREQUENCY ADJUST	Internal Trimmer Capacitor
LEVEL STABILITY	±.25dB (10°C to 40°)
OUTPUT CONNECTOR	Rear BNC (female) Connector
OUTPUT CARRIER MONITOR	Front Panel BNC (female)

MODULATION CHARACTERISTICS

COMPANDERED	DBX 3:1, standard 2:1 or other
MODULATION FREQUENCY	50Hz to 3.4kHz (optional) 50Hz to 7.5kHz (standard) 50Hz to 15kHz (standard) 50Hz to 20kHz (optional)
FREQUENCY RESPONSE	±0.1dB, 50Hz to 20kHz [see note (1)]
DEVIATION	±75kHz (peak) for +18dBm input
THD	0.1%, 50Hz to 20kHz [see note (1)]
SIGNAL TO NOISE	>70dB (ref to 75kHz pk 50Hz to 15kHz)
DEVIATION ADJUST	±5dB range (front panel adjust)
AUDIO INPUT LEVEL	+18dBm, 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