

# **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 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	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

# **THE MICRO PHASE COMMUNICATION MP-1040 AGILE FM AUDIO MODULATOR SPECIFICATIONS**

## **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



1017 El Camino Real, # 308  
Redwood City,  
CA 94063 USA

phone (650) 368 8379  
FAX (650) 368 3869  
<http://www.microphaseinc.com>