

**THE MICRO PHASE COMMUNICATION
MP-2030S OPTION 16
FM AUDIO DEMODULATOR
SPECIFICATIONS**

RF CHARACTERISTICS

| | |
|--------------------------|-------------------------------|
| INPUT FREQUENCY | * 52MHz to 88MHz |
| FREQUENCY SYNTHESISED | * 10KHz steps |
| NOISE FIGURE | * <18dB |
| IMAGE REJECTION RATIO | * Greater than 57dB |
| INPUT SIGNAL LEVEL RANGE | * -20dBm to -85dBm |
| AGC RANGE | * -20dBm to -60dBm |
| INPUT IMPEDANCE | * 75 ohm |
| RETURN LOSS | * 15dB |
| INPUT CONNECTOR | * BNC |
| MODULATION | * Frequency-modulated carrier |
| DEMODULATION | * PLL threshold extension |
| THRESHOLD | * 56dB/Hz |
| DEVIATION | * ±15kHz peak at 3.4kHz |
| CHANNEL BANDWIDTH | * 39kHz |

AUDIO CHARACTERISTICS

| | |
|--------------------|---|
| EXPANDER | * 2:1 |
| AUDIO FREQUENCY | * 50Hz to 3.4kHz |
| FREQUENCY RESPONSE | * ±0.5dB, 100Hz to 3.4kHz (rel 1000Hz) |
| DE-EMPHASIS | * 150uS (strappable) |
| THD | * 0.5% |
| SIGNAL TO NOISE | * 35dB @ 1kHz, C/No = 56 dB-Hz (includes compander) |
| SQUELCH | * Out-of-band noise |



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|------------------------|---|
| AUDIO OUTPUT LEVEL | * +7dBm (0 to +10dBm adjustable) |
| AUDIO LEVEL ADJUST | * Front-panel adjust |
| AUDIO OUTPUT IMPEDANCE | * 600 ohm, active balanced (no transformer) |
| OUTPUT RETURN LOSS | * >26dB |

FRONT-PANEL FEATURES

| | |
|------------------------------|---|
| Frequency Select | * 10kHz steps 52-88MHz (thumbwheel select) |
| Indicators | * Audio level * Carrier * Synthesiser lock * AFC alarm |
| Audio Level Audio Monitor | * Preset adjust * Audio jack |
| Power | * Front-panel power indicator |

REAR-PANEL CONNECTIONS

| | |
|----------------------|---------------------------------------|
| BNC Input | * 52-88MHz input |
| Power Entry | * Power-cord receptacle |
| Fuse | * Line fuse (inside power receptacle) |
| Pluggable Term Block | * Audio output * Alarm outputs |

GENERAL SPECIFICATIONS

| | |
|-----------------------|--------------------------|
| AC POWER | * 110V, 60Hz, 50 watts |
| MOUNTING | * 19" x 1.75" rack-mount |
| OPERATING TEMPERATURE | * 0°C to 50°C |



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