

THE MICRO PHASE COMMUNICATION
MP-2030S FM AUDIO
SINGLE DEMODULATOR
SPECIFICATIONS

RF CHARACTERISTICS

PRIMARY INPUT FREQUENCY	* 3700MHz to 4200MHz
SECONDARY INPUT FREQUENCY	* 52MHz to 88MHz
FREQUENCY SYNTHESISED	* 10KHz steps
NOISE FIGURE	* < 18dB
IMAGE REJECTION RATIO	* Better than 57dB
INPUT SIGNAL LEVEL RANGE	* -55dBm to -85dBm
INPUT IMPEDANCE	* 50 ohm
RETURN LOSS	* 12dB
INPUT CONNECTOR	* Type N female
LNA POWER	* Coax center conductor
TRANSPONDER SELECT	* Factory set

AUDIO CHARACTERISTICS

EXPANDER	* DBX 3:1, 2:1 or other
AUDIO FREQUENCIES	* 50Hz to 3.4kHz, 5kHz, 7.5kHz or 15kHz
FREQUENCY RESPONSE	* ± 0.2 dB, 50Hz to 15kHz (excludes expander)
DE-EMPHASIS	* 0uS, 25uS, 75uS or other
DEVIATION	* ± 15 kHz or ± 75 kHz (peak)
THD	* 0.2%
SIGNAL TO NOISE	* Within 1.5dB of theoretical
THRESHOLD	* 2dB of extension (pll demodulation)
SQUELCH	* Out-of-band noise
AUDIO OUTPUT LEVEL	* +18dBm (PPL)
AUDIO LEVEL ADJUST	* Front panel adjust
AUDIO OUTPUT IMPEDENCE	* 600 ohm, active balanced (no transformer)

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OUTPUT RETURN LOSS * > 26dB

FRONT-PANEL FEATURES

FREQUENCY SELECT * 10kHz steps (thumbwheel select)

INDICATORS * Audio level
* Carrier
* Synthesiser lock
* AFC alarm

AUDIO LEVEL * Preset adjust

AUDIO MONITOR * Audio jack

POWER * Front-panel fuse
* Front-panel power indicator

REAR-PANEL CONNECTIONS

N-TYPE CONNECTOR * C-band input

BNC INPUT * 52-88MHz input/output

POWER ENTRY * Power-cord receptacle

FUSE * LNA Fuse

PLUGGABLE TERM BLOCK * Audio output
* Alarm outputs

GENERAL SPECIFICATIONS

AC POWER * 110V, 60Hz, 50 Watts

SIZE * 17" W x 1.75" H (slimline)

MOUNTING * 19" rack-mount, flush

OPERATING TEMPERATURE * 10°C to 50°C

DUAL CHANNEL UPGRADEABLE * Field convertible to MP-2020S



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