

**THE MICRO PHASE COMMUNICATION  
MP-2020S FM AUDIO  
DUAL 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	* $\pm 0.2$ dB, 50Hz to 15kHz (excludes expander)
DE-EMPHASIS	* 0uS, 25uS, 75uS or other
DEVIATION	* $\pm 15$ kHz or $\pm 75$ 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**

PANEL CONFIGURATION \* Dual independent layout

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



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