

SENSITIVITY

(PREAMP OFF)

(PREAMP ON)

SENSITIVITY: LOW FREQUENCY RANGE (PREAMP OFF)

Mode	BW	SINAD	(PREAMP OFF)		(PREAMP ON)	
			Typical dBm/uV	Max dBm/uV	Typical dBm/uV	Max dBm/uV
AM (50% mod @ 400 Hz)	6.0 kHz	10 dB	-103/1.6	-101/2.0	-112/.56	-108/9
FM (6 kHz dev @ 1 kHz mod)	16.0 kHz	16 dB	-102/1.8	-100/2.2	-108/9	-104/1.4
USB/LSB/ISB	3.2 kHz	10 dB	-112/.6	110/.7	-119/.25	-115/.4
CW	3 kHz	16 dB	116/.35	-114/.45	-124/.14	-120/.22

Mode	Frequency	Typical dBm
CW @ 300 Hz BW	>500 kHz	-116 dBm/.35uV
SINAD - 16 dB	100 kHz	-115 dBm/.4uV
	50 kHz	-114 dBm/.45uV
	20 kHz	-107 dBm/1 uV
	15 kHz	-104 dBm/1.4uV
	10 kHz	-94 dBm/4.5 uV
	5 kHz	-82 dBm/18uV

DYNAMIC RANGE

Mode	Noise Figure (dB)		3rd Order Intercept(dBm)	
	Typ	Max	Typ	Min
10 dB PREAMP ON	10	14	20	15
PREAMP OFF	17	19	30	25
15 dB ATTEN	32	34	45	40

MODE	ATTACK (dB/ms)	HANG (sec)	DECAY (dB/sec.)
FAST	0.8	0	1200
MEDIUM	0.8	0	100
SLOW	0.8	0	25
PROGRAMMABLE	0.01-1.0	0.01-99.9	0.01-99.9

2nd ORDER INTERCEPT: 75 dBm typical, 60 minimum.

WIDEBAND OUTPUT, 1st MIXER: 45.455 MHz center frequency, output level 16 dB below receiver input. Bandwidth equivalent to preselector, no AGC. (1 kHz tuning step, inverted)

IF OUTPUT, POST DSP: 455 kHz center frequency, -10 dBm nominal @ 50 ohms through BNC connector (AGC active). Bandwidth determined by filter selection.

SIGNAL MONITOR OUTPUT, DELAYED AGC: 455 kHz, 16 kHz bandwidth (- 6 dB point), - 10 dBm nominal (+/-3 dBm) @ 50 ohms through BNC connector. GC delayed 40 dB. (1 kHz tuning step, inverted)

SIGNAL MONITOR OUTPUT, 2nd MIXER, NO AGC: 455 kHz, 16 kHz bandwidth, output level equal to receiver input @ 50 ohms through BNC connector. (1 kHz tuning step, inverted)

AGC: Fast, Medium, Slow, Programmable. Manual gain setting is provided in all four modes through RS-232 Interface, adjustable over 120 dB range. DUMP feature provided in all modes.

AUDIO LINE OUTPUT: 0 dBm (+/- 3 dBm) Two 600 ohm outputs (one for each sideband in ISB mode) to DA-15 connector, ungrounded center tap. In all other modes, signal is mono. Terminals may be grounded or shorted together without damage. Two additional mono outputs are provided, one AC coupled, one DC coupled.

ISB HEADPHONE OUTPUT: Front panel mounted 1/4" stereo phone jack. Other modes mono. 10 mw maximum into 600 ohms. Front panel volume control.

MONO HEADPHONE OUTPUT: Front panel mounted 1/4" phone jack. LSB, USB or both available, switchable by software control only. Front panel volume control.

DIGITAL DATA OUTPUT: Provides post DSP IF and audio information in both serial and parallel data streams.

MTBF: Not specified

AGC Range - 90 dB minimum Threshold - 3.0 uV typical

CONTROL INTERFACE: All receiver functions are controllable except headphone volumes. Multi-drop RS232 network @ DB25. Baud rate programmable from 300 to 19200. 7 or 8 data bits - even, odd or no parity. Interface can be configured for multiple or single receiver applications.

POWER REQUIREMENTS: 90-264 VAC, 48 - 440 Hz @ 30 watts nominal. Removable six foot line cord included. Front Panel ON/OFF switch provided. 5 X 20 mm 1 amp fuse.

DIMENSIONS: 1 3/4"H x 19"W (1U) (44.45 X 482.6mm). Chassis depth 20" (excluding front panel knobs, handles and rear panel connectors). Sized to mount in standard 19" racks. Accepts Jonathan slide type 375QD.

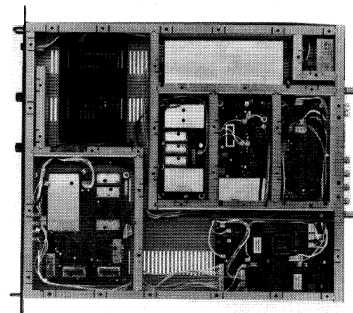
WEIGHT: 11.24 lbs. (5.10 kg)

ADDITIONAL FEATURES:

Squelch: all mode

Passband Tuning: +/- 2 kHz in USB, LSB and CW

Mute: for use in transmit/receive applications, mutes audio and post DSP IF output.



top view



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