MICOM-2BF Front Mount

HF-SSB Mobile/Fixed Digital Signal Processing Radio 125 watt PEP/Average 1.6-30 MHz

MICOM-2BF is an advanced Ruggedized Digital Signal Processing transceiver, intended for very wide area radio communications. It provides, excellent audio quality and high accuracy calibration of functions such as modulation, demodulation, squelch and noise blanking. Its software-driven approach optimizes current system application and accommodates infrastructure for future system enhancements.

MICOM-2BF with its compact size provides maximum ease of installation.The radio configured via a Radio Service Software (RSS) program for factory or field programming with a PC computer.

Features

- Enhanced features for better communications
- Ruggedized Mobile /fixed Transceiver
- Superb Human Engineering
- Advanced digital technology
- Conforms to MIL-STD 810 and EIA Specifications
- High MTBF
- Complies with ISO 9001 Requirements
- Voice activated digital squelch
- Programmable channel scan
- Digital noise blanking and clarifier
- Guard and Priority Channels
- Continuous duty operation (optional)
- BITE(Built-in Test)
- Meets FCC and EMC standards
- Enhanced Voice Quality
- Excellent frequency stabillity
- Small Size, Light Weight
- Selective calling system per FS-1045 and MIL-STD 188/141A or selective calling system based on CCIR recommendations 493-1

OTOROLA

VIICOM-2BF Front Mount



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		GI	ENERAL									
Mo	odel Num	nber: M70	AMK0KV5-N	/								
Frequency Range: / 1.6 MHz Tx, 100 kHz-30 MHz Rx												
Scanning: 5 groups with up to 100 channels per group												
Frequency Stability: 0.6 PPM												
Frequency Drift (Aging): 1 PPM per year												
Synthesizer Lock Time: 10 msec max.												
Frequenc	y Resolut	tion: 10 F	lz									
\		\										
Operating T	emp. Ra	nge: -30°	to +60°C									
	Humi	dity: 95%	6 @ 50 °C									
Operat	ing Volt	age: `_ 13.8	V DC ±20% N	eg. Ground								
N N												
Current Drain		Rece	ive		Transmit	mit						
@ 13.8 VDC	,	Squelched	Full Audio	Voice	2 Tone	1 Tone						
		1.7A	2A	13A	22A	27A						
		Height 📏	Width	Depth	Wei	ght						
Dimensions		mm/inch	mm/inch	mm/inch	Kg	Lb						
and Weight		93/3.7	302 /11.9	288 /10.6	5.8	12.8						
	\sim	7313.1	302 /11.9	200 / 10.0	5.6	12.0						

		\									
_	RECEIVER										
	Sensitivity (SINAD) SSB: 0.5 μν for 10 dB SINAD (Voice) (0.3 μν Typical. Note 1) 0.1-1.6 MHz – reduced performance	\ \ \									
	1/2 Rated Power Sensitivity: 1 μν for 2.5W audio @ speaker	1									
	Selectivity: -6 dB @ 350 to 2700 Hz -60 dB @ -1 kHz, +4 kHz										
	Image Rejection: -80 dB										
	IF Rejection: -85 dB										
	Undesired Sideband Rejection: -55 dB @ -1 kHz										
	Spurious Rejection: -80 dB										
	Intermodulation Rejection: -80 dB										
	Cross Modulation Rejection: -100 dB @ 100 kHz										
	/ Desensitization: -100 dB @ 100 kHz										
	Reciprocal Mixing: -100 dB @ 100 kHz	1									
	Audio Power @ Speaker: 5W @ 2.5% distortion	í									
	RGC Range: 5µv 1V (2 dB change in output level)										
	RGC Time Constants Voice: Attack time 10 msec Release time 1500 msec	/									
	Data: Attack time 10 msec Release time 10 msec										
	Squelch: Constant SINAD (digital)										
-	Clarifier Range: ±200 Hz in 10 Hz steps										
	Receiver Tuning Adjustments: None										
	Antenna Input Protection: 20 kV maximum transient, 100V RMS for 2 minutes										

MILITARY & INDUSTRIAL STANDARDS MICOM -2BF meets the following US military and industrial standard requirements for adverse environmental conditions (without the need of external shock mounts)

The MICOM-2BF also meets the EIA-RS152B for shock, vibration and applicable test procedures, US FCC for channel occupancy, spurious, / interference and frequency tolerance. It is manufactured according to the demanding standards of ISO 9000 and EMC (Electromagnetic Compatibility).

15, 80, 90 ABZ9QCC1635

MAJOR ACCESSORIES

FCC Information; Emissions: J3E, R3E, H3E, J2A, J2B, B8C

US Military

STD 8100

Method 514.2

516.2

506.1

510.1

509.1

TRANSMITTER									
Output Power:	125W P.E.P. and average								
Reduced Power Levels:	25W, 62W, 100W (RSS Programmable) — — —								
Audio Bandwidth Ripple:	3 dB								
Intermodulation:	-31 dB/P.E.P. (-35 dB/P.E.P. Typical. Note 1)								
Harmonic Emissions:	-64 dB/P.E.P. (-70 dB/P.E.P. Typical. Note 1)								
Spurious Emissions:	-64 dB/P.E.P. (-70 dB/P.E.P. Typical. Note 1)								
Carrier Suppression:	-50 dB/P.E.P.								
Undesired Sideband Suppression:	-55 dB/P.E.P.								
Audio Distortion:	2.5%								
1/2 Power Mic. Sensitivity:	25 to 125 mV (RMS)/600 ohms								
Hum & Ripple:	-50 dB								
Inband Noise:	-60 dB (30 Hz BW)								
Tx/Rx Switching Time:	10 msec								
Tx Tuning Adjustments:	None								
Note 1: Values noted as typical an	e valid over 90% or more of the frequency range.								

Note	1:	Va	lues	note	ed a	s typic	al are	valid	over	90%	or	more	of	the	fre	eque	псу	ran	ge.
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OPTIONS

- RS232 Remote Contol Interface
- Linear Amplifier Interface
- Phone Patch Interface Data/Fax Modem interface

- Interlink Interface

24 VDC Operation
 RSS for PC

Established by

- Phone Patch
 Interlink (FM-HF repeater)

FCC Applicable Parts of Rules:

FCC Type Acceptance Number:

Automatic Antenna Tuner
 Continuous Duty Kit

Environmental Condition

Vibration

Shock

Rain

Dust

Salt Fog

- Automatic Tuning whip antenna
- AC Power Supply

US Military

STD 810D

Method 514.3 516.3

506.2

510.2

509.2

- 1 kW Amplifier 400 W Amplifier
- Antennas and Grounding kit
- Data/Fax Modem
 CW Key & Headphones

Specifications subject to change without notice.

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US Military

STD 810E Method 514.4

516.4

506.3

510.3

509.3

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