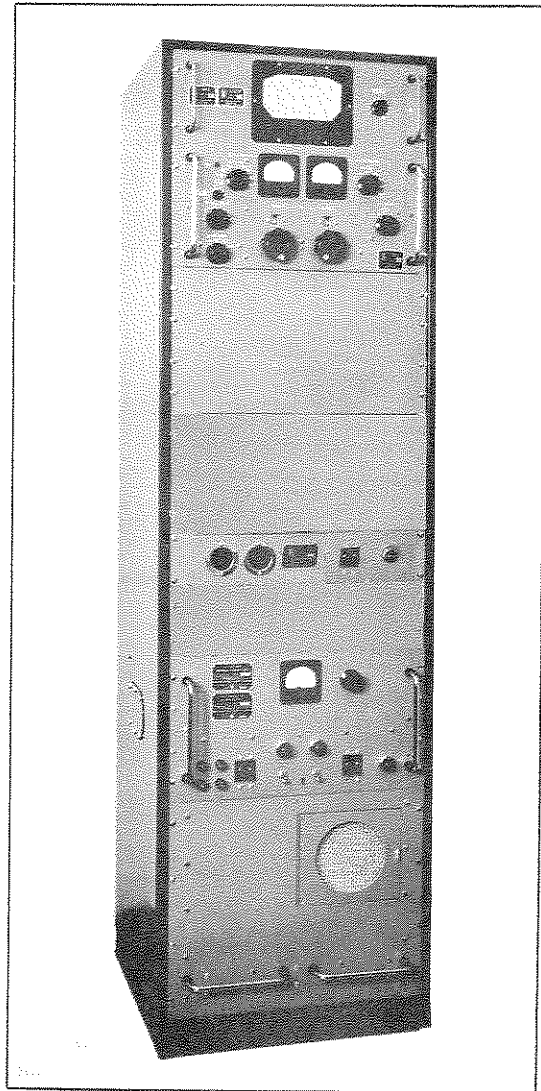


Radio Transmitter
TMC Model SBT-1K-Q
AN/FRT-56

The TMC Model SBT-1K-Q is a conservatively rated general purpose transmitter capable of 1000 watts output throughout the frequency range 2 to 32 megacycles. The transmitter is designed to accept external or internal excitation and, depending on the exciters used, the unit permits operation in the following modes: CW - AM - SSB - ISB - DSB - FS - FAX. For example: addition of the 0-5()/FR, Frequency Shift Exciter and a multiplier provides for FS keying of the transmitter throughout its frequency range. Addition of the AN/URA-28, Modulator-Power Supply Group, permits sideband operation with up to -55 db carrier suppression. (For sideband operation, see Sales Service Bulletin Number 257 which describes AN/FRT-57, TMC Model SBT-1KL).

The unit is completely bandswitched and is continuously tuneable with all controls on the front panels. All units are slide mounted so that they slide out and tilt over for easy internal adjustments or maintenance. This linear amplifier is housed in a semi-pressurized rack with filtered forced air cooling for rapid heat dissipation.



A Standing Wave Ratio Indicator is included to accurately indicate Forward Power, Reflected Power and SWR. Also furnished is an Auxiliary Power Panel to provide convenience outlets.

TECHNICAL SPECIFICATIONS:

FREQUENCY RANGE:	2 to 32 megacycles
OUTPUT POWER:	1000 watts PEP 1000 watts CW, FS
OPERATING MODES:	CW, AM, SSB, ISB, DSB, FS, FAX (with appropriate exciter)

TUNING: All tuning and bandswitching accomplished from front Panels

OUTPUT IMPEDANCE: 50 or 70 ohms unbalanced

INPUT REQUIREMENTS: 100 mw will produce full output

INPUT CONNECTIONS: Type UHF coaxial

OUTPUT CONNECTIONS: Type QDS coaxial

SIGNAL TO DISTORTION RATIO: Better than 40 db down relative to PEP output

HARMONIC SUPPRESSION: Second harmonic at least 40 db and all others at least 50 db down from PEP output

ALDC: An automatic load and drive control is provided to limit distortion during high drive peaks or load changes.

SAFETY: Full interlock protection. Full overload and fuse protection.

TEMPERATURE AND HUMIDITY: Designed to operate in any ambient temperature between the limits of 0 and 50 degrees C and for any value of humidity up to 90%.

COOLING: Filtered, forced air cooling

POWER REQUIREMENTS: 115/230 volts, 50-60 cps, single phase, 1900 watts

MOUNTING: Unit is Base mounted

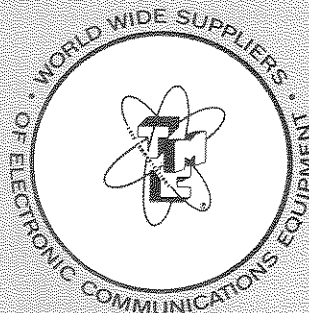
SIZE: 72-1/4" high x 20-5/8" wide x 22-1/2" deep

WEIGHT: Unit 610 lbs

TUBE COMPLEMENT:

- RFD-1 RF Amplifier
 - 1 ea. PL-172 (TV-100)
 - 1 ea. 5763
 - 1 ea. 6146
- PS-4 Power Supply
 - 1 ea. 5R4GY
 - 1 ea. OB2
 - 1 ea. 6X4
 - 2 ea. OA2
- PS-5 Power Supply
 - 2 ea. 872A

COMPONENTS AND CONSTRUCTION: All equipment manufactured in accordance with JAN/MIL Specifications wherever practicable.



The TECHNICAL MATERIEL CORPORATION

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