



## SALES SERVICE BULLETIN NUMBER 195

Single Sideband Exciter, Model SBE-1

The TMC Model SBE-1 Exciter is designed to be used with any linear amplifier to provide single sideband, suppressed carrier, CW or single sideband with carrier.

The Exciter is continuously tunable through the range 2 to 32 megacycles and may be operated by means of selected crystals or external V.F.O. In the case of the Model GPT-750 Transmitter, for which the unit was previously designed, it may use the highly stable V.F.O. built into the transmitter and the output plugs directly into the single sideband input of the GPT-750 multiplier.

Sideband selection is accomplished by high quality filters, and unwanted sideband energy and distortion products are down 40 db or more. Carrier may be suppressed at 60 db. VOX (voice control with anti-trip features) is built-in and adjustable.

The entire unit is housed in a desk type cabinet, matching our GPR-90 receiver and GSB Sideband Adapter.

The Exciter is also available for operation within the Model GPT-750 by ordering assembly A-1279, Panel-Chassis Assembly, with the Model SBE-1.

### FRONT PANEL CONTROLS:

1. Sideband Selector
2. Band Switch
3. Tuning Control
4. Output Control
5. Output Indicator
6. Carrier Insertion Level Control
7. Audio Gain Control
8. Transmission Mode Selector

### TECHNICAL SPECIFICATIONS:

|                   |  |
|-------------------|--|
| POWER:            | 3-4 Watts P.E.P.                             |
| OUTPUT IMPEDANCE: | 72 ohms, nominal.                            |
| FREQUENCY RANGE:  | 2-32 Mc.                                     |
| OPERATING MODES:  | S.S.B.<br>C.W.<br>Carrier with One Sideband. |

**AUDIO INPUT IMPEDANCE:** 500K for High Impedance  
Crystal or Dynamic mike.

**AUDIO INPUT LEVEL:** -50 db for full RF output.

**AUDIO RESPONSE:** Within  $\pm 3$  db from 400 to 3200 cps.

**WEIGHT:** Approximately 80 pounds, net.

**SIZE:** 20'' wide x 19'' deep x 12'' high.

**CONSTRUCTION AND COMPONENTS:** Equipment is manufactured in accordance with JAN specifications wherever practicable.

# THE TECHNICAL MATERIEL CORPORATION

700 FENIMORE ROAD

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