

DATE 9/17/57SH. 1 OF 1

COMPILED BY

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TMC SPECIFICATION NO. S-348

TITLE: SELECTION OF CRYSTAL OR MO FREQUENCY FOR THE

JOB

APPROVED

AJJ

GPR-90 RX

Crystal or Master Oscillator frequencies are chosen as shown below:-

- (1). For master oscillator operation with an external oscillator

From .54 Mcs. to 5.6 Mcs.

$$F_{MO} = F_{SIG} + .455$$

From 5.6 Mcs. to 31.5 Mcs.

$$F_{MO} = F_{SIG} + 3.955$$

- (2). For crystal operation:

From .54 Mcs. to 5.6 Mcs.

$$F_{xtal} = F_{sig} + .455$$

From 5.6 Mcs. to 16.0 Mcs.

$$F_{xtal} = F_{sig} + 3.955$$

From 16 Mcs. to 31.5 Mcs.

$$F_{xtal} = F_{sig} + 3.955$$

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These equations will place the imaginary or real carrier in the exact center of the receiver I.F. passband.

Crystal used: CR-18/U