

MODEL 250-20

52 OHM

INSTALLATION AND OBSERATING INSTRUCTIONS

A live pass filter consisting of four full sections capable of handling more than 1000 watts 87, amplitude metabolise or 5,000 watts peak 558. Cu-off frequency is 65 mic. with "M" derived and sections adjusted to previde resultinus afformation of 52 mic. the centre of 17° desired 2° defineation of handlinessic and sparsing frequention.

Characteristic impodance of the filter is \$2 show. When proposely terminated, the maximum valleage developed across capacities in normal, even at 1 KW average power. In designing the JOHNSON Live Pass Filter, consideration was given the fact that the \$5 valleage could risk to undersubly high values if the least was accidentary to review. Howevier, to enable the user to survive the units of the filter case has been made readily accessible and fact capacities have replaceable insulations.

Standard SO-219 coasial connectors are used for input and output terminals. The unit is completely essembled, pre-hand and equipped with convenient mounting hardware.

The 250.25 SCHOSCH Low Pass Filter is intended for sent with a 32 thm cascal discussion line at mode, for each with a 32 thm cascal interactions line at mode, for each cascal ca

It is assumed that the transmitter, with which the lifter is being such has been previously whiched and experient with a force but follow. The articles to the experient with a force the fillies. The articles the whole is among a state-rule, due to the property of the whole is among a state-rule, and to the country to all carries flowing on the subtile of the transform and the state of the state of the state of the fillies are also as the state of the time pass (first, Use of in 50-239 connector at this point provider a concepted manuse of brighty and grown with benefits dished.

With many amateur transmitters using lew impodance fiels to outple to balanced antenna systems usme type of atterna outpler is required. However, use of a fixed impedance filter does not unduly complicate antenna leading. The antenna coupling system shows below is stroke and quite flexible. purchase C/1 and C/2 as shown below.

The sections of coasial line between the transmitter output and the low pass filter and between the low pass. Filter and between the low pass. Electrical quester weren or multiples should be availed. A directional coupler, such as the Johnson 190-37, will never insulation both for follar action and for consentance.

Tuning of the coupler can be made guite broad by making the L/C ratio as high as possible flow "O") while

still permitting the desired leading, Industries reactance

of the links may make it impossible to enduce the CWI

liek circuits can be made series reserved by adding on

HELPFUL REFERENCES:
"Coupling the Transmitter to the Line", pp. 313-318
ARR. Handbook, 1955.
George Grammer, "Elminating IVI with Low Pess Filters"
OST, February - March, 1950.

NOTICE
The JOHNSON 28C-20 Low Pers Filter has been carefully hund at the factory using precise measuring originant. The adjustable elements are sealed with gigstal and will require no further adjustment usless ca-



E.F. Johnson Company

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