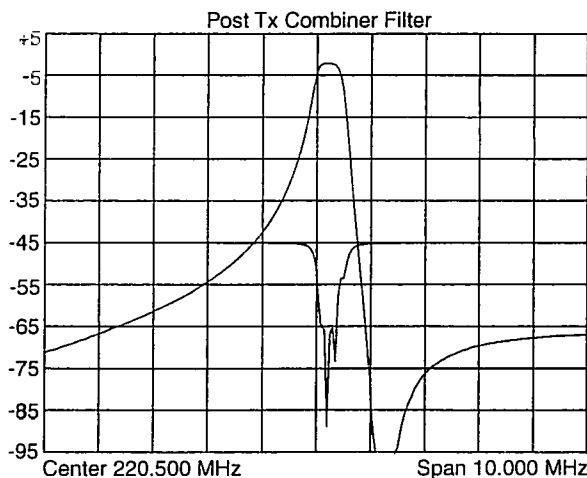
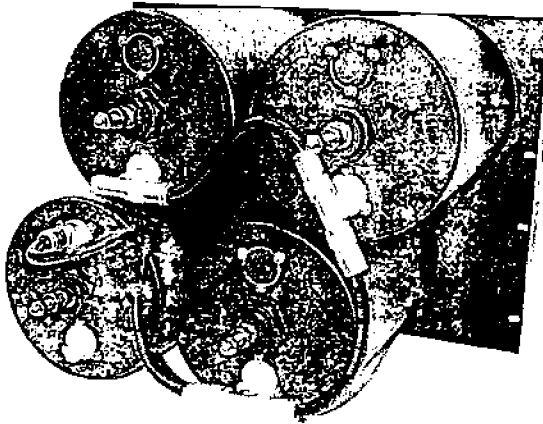


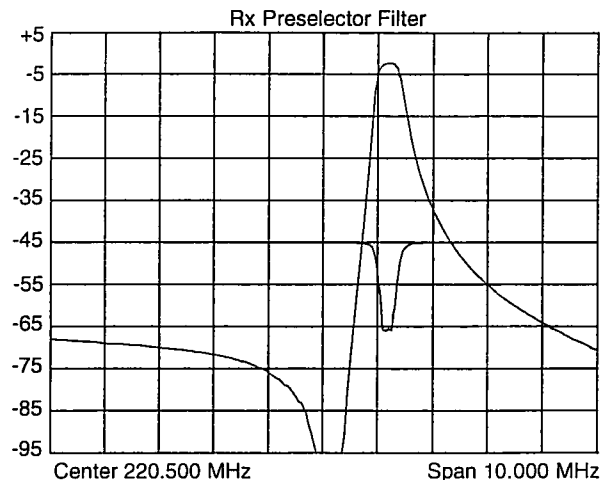
BpBr CIRCUIT FILTER

WP-747L3/447L1

220 - 222 MHz



Attenuation - dB



Model WP-747L3/447L1 is a four cavity BpBr Circuit Filter for use in the 220 - 222 MHz trunking band as a Post Tx Combiner filter or as a Rx Preselector filter. It consists of three 7" OD BpBr cavities and one 7" OD Bp cavity. It is designed to provide a minimum of 100 dB of isolation from the opposing Tx or Rx frequencies depending upon configuration. The only difference between the two versions is the tuning.

	WP-747L3/447L1 Post Tx Combiner Filter	WP-747L3/447L1 Rx Preselector
Tuning Range	220 - 222 MHz	220 - 222 MHz
Bandwidth	200 KHz	200 KHz
Insertion Loss	2.25 dB	2.5 dB
Attenuation (from opposing Tx/RX @ 1 MHz) ...	100 dB Min.	100 dB Min.
VSWR (Ref. @ 50 ohms)	1.25 to 1	1.25 to 1
Maximum Power Input	150 watts	150 watts
Temperature Range	-30°C to + 60°C	-30°C to +60°C
Connector Terminations	Type N Female	Type N Female
Dimensions (H x W x D)	15 3/4" x 19" x 14"	15 3/4" x 19" x 14"
Net Weight	25 lbs.	25 lbs.
Shipping Weight	33 lbs.	33 lbs.

NOTES:

1) CAVITIES:

A) WP-747L QTY:6

B) WP-447L QTY: 2

2) PANEL: PNPA-13-915B QTY:2

3) LOOPS: AS INDICATED

ADVANCE COPY
Process as ECO Released

CABLES

TX FILTER:

BPBR-BPBR: 30214-NM-NM-7.875

BP-BPBR:30214-NM-NM-16.750

HYBRID TO BP: 30214-NM-NM-36

RX FILTER:

BPBR-BPBR: 30214-NM-NM-7.500

BP: 30214-NM-NM-19.000

RX MULTI TO BP: 30214-NM-NM-19.000

LOOP SETTINGS (TX OR RX):

CAVITY 1: MAX.

CAVITY 2 & 4: SYMMETRICAL NOTCHES @ +/- 4.25 MHz

CAVITY 3: SYMMETRICAL NOTCHES @ +/- 4.00 MHz

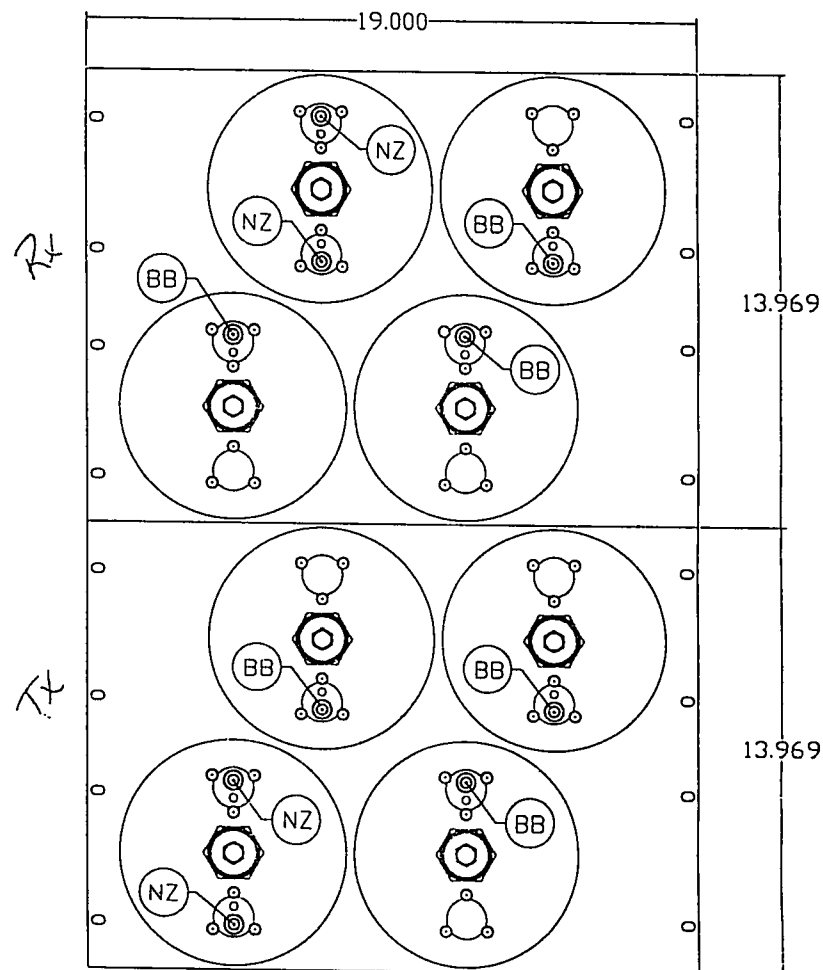
FC 220.350

MARKERS

216.100 224.600
216.350 224.350

FC 221.350

217.100 225.600
217.350 225.350



Tx - CABLED up = IL - 2.25 max

RL - 20 db min

Reject - 100 min

Rx - CABLED up = IL - 2.5 max

RL - 20 db min

Reject: 100 min

TITLE: WP-947-51A/B
WP-657-8/ WP-747L3/447L1
LAYOUT AND PARTS LIST

TOLERANCES

EXCEPT AS NOTED

(DECIMAL) ± .010

(FRACTIONAL) ± 1/32

(ANGULAR) ± 1°

NOTICE: The information contained herein is considered to be confidential material and proprietary to WACOM PRODUCTS, INC.

REV.

NC

WACOM
PRODUCTS, INC.

SCALE: N.T.S.

DRAWN BY: R. Nowosielski

OLD DRAWING NO:

DRAWING NO:

DATE: 7/13/99

APPROVED BY: L. ALCORN

N/A

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