

COMPACT INTEGRATED COMBINING

138 - 300 MHz

ELECTRICAL SPECIFICATIONS			
Model Number	VHF24522/SYS-100	VHF24532/SYS-100	VHF24542/SYS-100
Frequency Band	150 - 174 MHz	150 - 174 MHz	150 - 174 MHz
Number of Channels	2	3	4
Max. Input Power / CH	100 Watts	100 Watts	100 Watts
TX Insertion Loss Typ (Note 1 & 2)	6.0 dB	7.8 dB	9.0 dB
Max. TX Passband (Note 3)	600 KHz	600 KHz	600 KHz
Max. RX Passband (Note 3)	600 KHz	600 KHz	600 KHz
TX-RX Stop Band Minimum (Note 3)	3.8 MHz	3.8 MHz	3.8 MHz
TX-TX Isolation	80+ dB	80+ dB	80+ dB
TX-RX Isolation	70+ dB	70+ dB	70+ dB
RX-TX Isolation	70+ dB	70+ dB	70+ dB
ANT-TX Isolation	60+ dB	60+ dB	60+ dB
Input Return Loss	20 dB or better	20 dB or better	20 dB or better
TX Bandpass Filter (Note 3)	Optional	Optional	Optional
Receiver Multicoupler Amp	Yes	Yes	Yes
Maximum Amplifier Gain	34 dB @ 150 MHz	34 dB @ 150 MHz	34 dB @ 150 MHz
Amplifier Gain Field Adjust	Yes	Yes	Yes
Amplifier NF	2.8 dB	2.8 dB	2.8 dB
Standard Voltage Required	115 / 230 VAC	115 / 230 VAC	115 / 230 VAC
Optional Voltages	13.6 / 24 / 48 VDC	13.6 / 24 / 48 VDC	13.6 / 24 / 48 VDC

SYS SERIES

Note 1: TX passband width, RX passband width, and stop band between them will have a direct affect on TX side insertion loss.

Note 2: Standard system TX side is equipped with only pass notch filters. Bandpass filters can be added but will increase insertion loss and cost.

Note 3: Filter can be customized to adapt to greater passband widths and/or lesser stop band widths.

** 6.25, 12.5, 25 KHz Channels

EMR CORPORATION