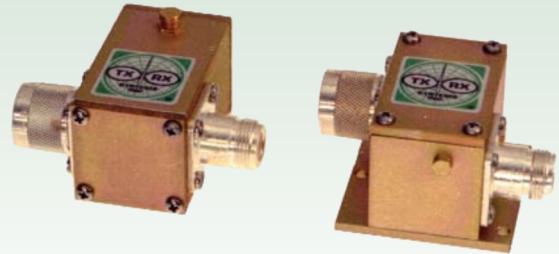




2nd Harmonic Filters

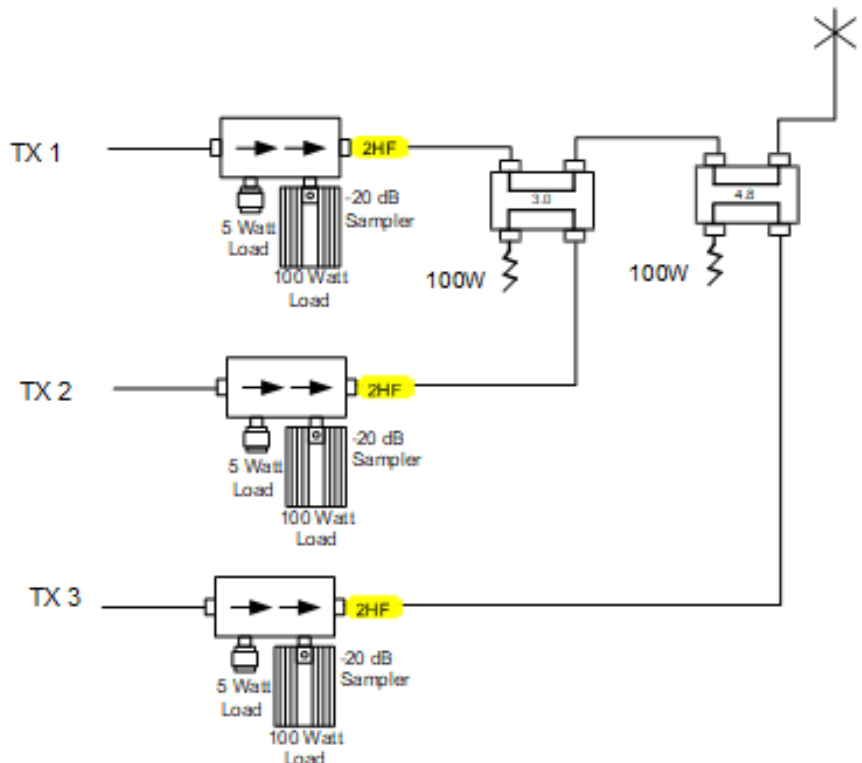
132-960 MHz

Circulator junctions utilize non-linear ferrite elements that may generate significant amounts of harmonic power. Second harmonics, in particular, contribute to the formation of third-order intermodulation products when mixed with other transmitter carriers. For this reason, either a bandpass cavity filter or a harmonic filter must always be installed between the isolator output and the system antenna. The filters below provide excellent second harmonic suppression for hybrid/ferrite transmitter combiners for applications where a bandpass filter is not used.



Model	22-38-01	22-67-01	22-90-01
Frequency Range (MHz)	132-174	406-530	806-960
Insertion Loss (passband)	0.02	0.02	0.02
Return Loss (VSWR)	>20 (1.22:1)	>20 (1.22:1)	>20 (1.22:1)
Second Harmonic Attenuation (dB)	>60	>60	>60
Maximum Input Power (W)	600	600	600
Connectors (In/Out)	N(M) / N(F)	N(M) / N(F)	N(M) / N(F)

Right: Placement of 2nd harmonic filter in a combiner system



TX RX Systems Inc.

8625 Industrial Pkwy, Angola, NY 14006
 716.549.4700 | Sales@txrx.com | www.txrx.com