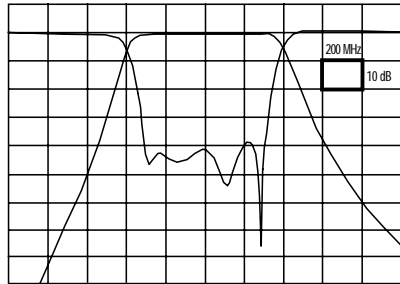


# Uplink/Downlink Filters & Diplexers

For Commercial & Military Bands



Typical Frequency Response of 9349

## 9349, 9350 & 14560 Series

Models 9349, 9350 and 14560 are complementary filters used to isolate the receive (downlink) and transmit (uplink) bands, providing suppression of any interference these bands may cause to each other. Each filter passes the full allocated downlink and uplink frequency bands while offering a high level of isolation from each other. In addition to offering the necessary level of rejection, they maintain a low insertion loss and an excellent VSWR over the full operating band, facilitating minimal impact on system operation.

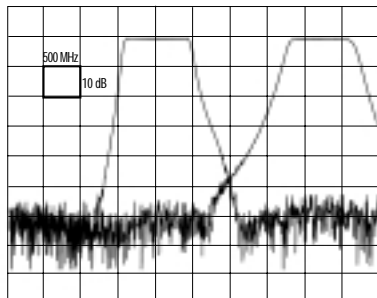
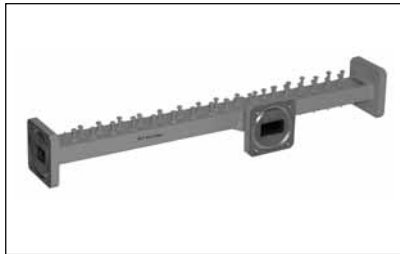
Model #	Passband (GHz)	Loss dB (Max.)	Stopband (GHz)	Reject (dB)	Power (Watts)	VSWR
<b>Ku Bandpass Filters Models 9349 &amp; 9350</b>						
9349	11.70-12.20	0.5	14.00-14.50	55	1	1.25:1
	Ku-band downlink		Ku-band uplink			
9350	14.00-14.50	0.5	11.70-12.20	60	500	1.25:1
	Ku-band uplink		Ku-band downlink			
<b>Ku Bandstop Filter Model 14560</b>						
14560	10.70-12.75	0.5	14.0-14.5	70	N/A	1.20:1
	Ku-band downlink		Ku-band uplink			

## Mechanical Specifications

9349 & 9350 Dimensions: 4.5"L x 1.5"H approximately

14560 Dimensions: 2.5"L x 1.5"H approximately

## 14510 Diplexer



Typical Frequency Response of 14510

## 14510 Series

The model 14510 diplexer is used to combine the downlink and uplink bands to allow for simultaneous transmit and receive operation. Each portion of the diplexer has integrated bandpass filters, matched for optimal system performance. By combining the individual bandpass filters into a single diplexer, only a single waveguide run on the transmit tower is required, reducing cost and improving signal quality.

## Diplexer Model 14510

	Uplink	Downlink
Passband	14.0-14.5 GHz	11.7-12.2 GHz
Insertion Loss	0.35 dB Max	0.35 dB Max
VSWR	1.375:1 Min	1.35:1 Min
Isolation	80 dB Min	80 dB Min

## Mechanical Specifications:

Dimensions: 10.75"L x 1.5"H

## Common Options:

Units are made of WR75 waveguide and come standard with cover flanges. Each unit can be custom built for single channel or partial satellite bands, with connectors and mechanical configurations designed to meet customer requirements. Temperature compensated models are also available, where outdoor applications are necessary.