

**MODEL WP-687-3943 DIPLEXER
FOR THE
900-960 MHz BAND**

Model WP-687-3943 is a special 4-cavity Bandpass-Reject Diplexer designed to couple two separate receivers (operating at 901 and 940 MHz respectively) into a single antenna. It consists of one 4" OD Bandpass and one Bandpass-Reject cavity in each section, all mounted on a 5¼" x 19" steel panel. The panel includes a special stiffener bracket to dampen vibration. The Bandpass-Reject cavity in each section is tuned to reject the 929 to 932 MHz band. The two cavities in each section of this diplexer are essentially the same as model WP-4941-7941 dual filter described in the catalog.

	WP-687-3943
Tuning Range	900-960 MHz
Insertion Loss (F1 to F2 to Antenna)	1.2 dB
Isolation, F1 and F2, min	40 dB
Attenuation of 929-932 MHz Band	
F1 to Antenna	70 dB
F2 to Antenna	45 dB
Temperature Range	-30° to +60°C
Maximum VSWR (Ref. 50 ohms)	1.3 to 1
Number of Cavity Filters	4
Materials:	
Cavity Outer Conductor	Copper
Cavity Inner Conductor	Copper
Cavity End Plates	Copper
Dimensions:	
Cavity (not incl.tuning rod)	4" dia. x 6"
Diplexer (H x D x W) with tuning rods fully extended	5¼" x 10" x 19"
Connector Terminations	Type N Female
Shipping Weight	23 lbs.

