

Comprod is a leader in the design of RF filtering and coupling devices. The following are the specifications for couplers and tuners required as part of a Disguised Antenna solution.

Broadcast couplers - allow AM-FM broadcast receiver operation along with normal two-way mobile radio operation.

Crossband couplers - allow mobile radios on two different bands to operate with a single disguised antenna.

Antenna tuners - provide impedance matching and partly retuning the existing antenna to new frequencies.

Broadcast Coupler Specifications

Model Number	Frequency Range	Insertion Loss		Max Power	Minimum Isolation
		Mobile	AM-FM / RX		
444-75	27-54 MHz	0.15 dB	1.5 dB	150 Watts	35 dB
445-75	138-174 MHz	0.15 dB	1.5 dB	150 Watts	35 dB
446-75	406-512 MHz	0.15 dB	1.5 dB	150 Watts	35 dB
447-75	764-960 MHz	0.20 dB	0.5 dB	50 Watts	40 dB

Crossband Coupler Specifications

Model Number	Frequency Range		Max Power	Insertion Loss	Minimum Isolation	Connectors	Size (H x W x L) In (mm)
	Low Pass	High Pass					
485-75	138-174 MHz	406-512 MHz	100	0.4 dB	40 dB	UHF Female	1.6 x 3.5 x 3 (41 x 89 x 76)
486-75	30-50 MHz	138-174 MHz		0.3 dB	35 dB		
487-75	138-174 MHz	764-960 MHz		0.3 dB	35 dB		

Crossband Coupler



Antenna Tuner Specifications

Model Number	Frequency Range	Max Power	Impedance	
			Input 1	Input 2
461-75	144-174 MHz	150 Watts	50 Ohms	10-700 Ohms
462-75	406-512 MHz	150 Watts	50 Ohms	10-700 Ohms