

AVAIR Duplexer and Triplexer Instruction

Duplexer Specifications:

C type Separate Connectors with Cable w/PL-259

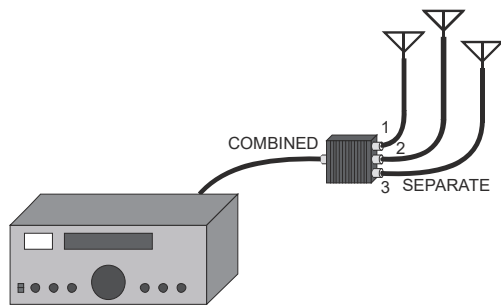
D type Separate Connectors with SO-239

Model No	Band Pass Freq. (MHz)	Power	Insertion Loss	VSWR	Isolation	Impedance	Separate Connectors	Combined Connector
AV-21C/21D	1.6-225	250W	0.20 dB	<1.2	>50 dB	50 ohm	SO-239	SO-239
	350-540	200W	0.20 dB	<1.2	>50 dB	50 ohm	SO-239	
AV-22C/22D	1.6-150	600W	0.20 dB	<1.2	>50 dB	50 ohm	SO-239	SO-239
	400-460	600W	0.30 dB	<1.2	>50 dB	50 ohm	SO-239	
AV-23C/23D	1.6~170	600W	0.20 dB	<1.2	>50 dB	50 ohm	SO-239	
	220~250	600W	0.30 dB	<1.2	>50 dB	50 ohm	SO-239	
AV-32C/32D	1.6-56	600W	0.20 dB	<1.2	>50 dB	50 ohm	SO-239	SO-239
	140-470	600W	0.30 dB	<1.2	>50 dB	50 ohm	SO-239	
AV-35C/35D	1.6~30	600W	0.20 dB	<1.2	>50 dB	50 ohm	SO-239	
	49~470	600W	0.30 dB	<1.2	>50 dB	50 ohm	SO-239	

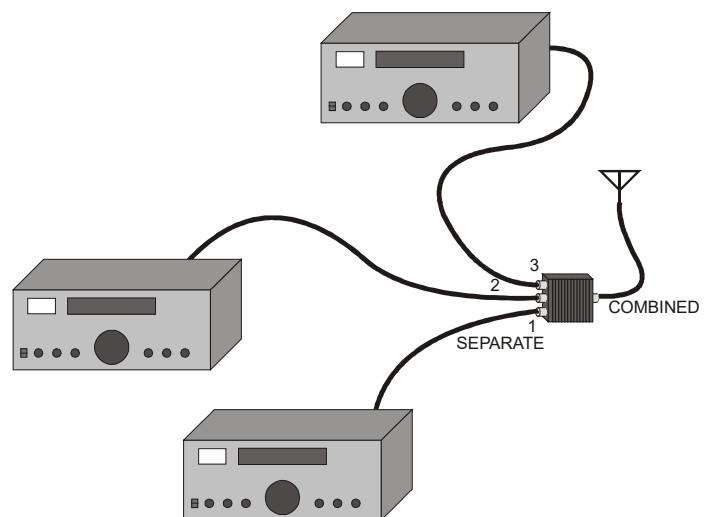
Triplexer Specifications:

Model No	Band Pass Freq. (MHz)	Power	Insertion Loss	VSWR	Isolation	Impedance	Separate Connectors	Combined Connector
AV-36C	1.6-60	800W	0.15 dB	<1.2	>60 dB	50 ohm	Cable w/PL-259	SO-239
	110-170	800W	0.20 dB	<1.2	>60 dB	50 ohm	Cable w/PL-259	
	350-570	500W	0.25 dB	<1.2	>60 dB	50 ohm	Cable w/PL-259	
AV-36D	1.6-60	800W	0.15 dB	<1.2	>60 dB	50 ohm	SO-239	SO-239
	110-170	800W	0.20 dB	<1.2	>60 dB	50 ohm	SO-239	
	350-570	500W	0.25 dB	<1.2	>60 dB	50 ohm	N-Female	
AV-37D	1.6-150	800W	0.20 dB	<1.2	>40-50 dB	50 ohm	SO-239	SO-239
	220-225	600W	0.30 dB	<1.2	>40-50 dB	50 ohm	SO-239	
	400-550	500W	0.40 dB	<1.2	>40-50 dB	50 ohm	SO-239	
AV-38D	1.6-160	800W	0.20 dB	<1.2	>50 dB	50 ohm	SO-239	N-Female
	350-550	500W	0.30 dB	<1.2	>50 dB	50 ohm	SO-239	
	850-1300	200W	0.40 dB	<1.2	>50 dB	50 ohm	N-Female	

Diagrams show a triplexer. Duplexers will only have two separate ports instead of the three shown.



Multi-band radio to single band antennas.
Connect the radio to COMBINED or MIX port and connect the correct band antennas to the SEPERATE ports.



Single band radios to multi band antenna.
Connect the multiband antenna to the COMBINED or MIX port and connect the proper band radios to the SEPERATE ports.