

136~174MHz 4 Cavity Duplexer

TS-T-SGQ-150-4 Cavity Duplexer

The base station duplexer is ideal for high power, close frequency separation installations. These filters are designed for combining two frequencies or they can be used as efficient pre-selectors. If higher levels of isolation are required, please consider using 6 cavity configurations. Selectivity can be determined by the field adjustable capacitors. Each cavity is temperature compensated for operation between -20°C to +65°C. Each cavity has silver-plated loops, and silver-plated tuning rods.

●Specifications:

Product Number	TS-T-SGQ-150-4	
Electrical Specifications		
Channel	Low Pass (RX)	High Pass (TX)
Frequency Range	136~174MHz	136~174MHz
	Frequency can be made within 136~174MHz range	
RX-TX Min. Separation	0.6MHz (for example RX=146.2350MHz,TX=146.8350MHz)	
Cavity Quantity	4 (RX: 2 cavity, TX: 2 cavity)	
Cavity Shape	Square	
Insertion Loss	< 2dB@0.6MHz RX-TX separation; < 1.5dB@1.6MHz RX-TX separation; < 1.2dB@2.5MHz RX-TX separation; < 1.0dB@5MHz RX-TX separation.	
VSWR	≤1.2	≤1.2
Return Loss	≥25dB	≥25dB
RX-TX Isolation	≥75dB@0.6MHz RX-TX separation; ≥80dB@1.6MHz RX-TX separation; ≥85dB@2.5MHz RX-TX separation; ≥90dB@5MHz RX-TX separation	
Max. Input Power	350W	
Mechanical Specifications		
Operating Temperature	-20℃ ~ +65℃	
Inner conductor	Silver plated copper	
Connector Type	N-Female, 50Ω	
Dimensions	418mm*670mm*110mm	
	483mm*670mm*110mm (with 19" rack mount)	
Shipping Size	770mm*500mm*170mm	
	770mm*520mm*170mm (with 19" rack mount)	
Net Weight	12KG	
Shipping Weight	13KG	
Appearance	Silver Color	

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●Duplexer Figure and Response Curves:

