

XTC-Expandable Transmit Combiner Series—7" Cavity

Our Expandable Transmit Combiners can combine from 1 to 21 channels. The XTC series of filters incorporates expandability, close frequency spacing and some of the lowest insertion losses in the industry. Using a 6.625" cavity, the XTC can easily support 75 kHz TX-TX spacing or 50 kHz spacing when using 10" cavities. Each cavity is constructed using a gold Alodine finish, silver-plated loops, silver-plated connectors and an internal tuning plunger. Additionally, cavities are temperature compensated for operation between -40°C to +60°C. Every cavity is equipped with both coarse and fine-tuning rods for quick and easy field or lab re-tuning.

- Flexible and expandable design, From 1-21 channel capacity
- Expandable: 1 or more additional channels at a time, Re-configurable equipment
- 28 MHz to 254 MHz of operating bandwidth
- Temperature compensation, Ensures frequency stability
- High attenuation, Minimizes desense and interference
- Ultra-low insertion losses, Low coupling and bridging losses
- Continuous high-power handling capability, 150 watts – 24/7



Electrical Specifications	XTC-11-7ND	XTC-13-7ND	XTC-22-7ND	XTC-38-7ND	XTC-76-7ND
Frequency Range, MHz	108-136	132-174	215-300	380-512	746-1000
Bandwidth, MHz	28	42	85	85	254
Number of Channels	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12
Cavity Diameter, in	6.625	6.625	6.625	6.625	6.625
Min. Channel Sep., kHz	75	75	100	125	250
Isolation Min., TX-TX, dB	70	70	70	80	80
Isolation Min., Ant-TX, dB	60	60	60	70	70
Max. Insertion Loss Per Chan., dB	3.6 to 5.6	4.3 to 6.7	4.1 to 5.8	4.1 to 6.4	3.1 to 5.5
Continuous Power Input, Watts	150	150	150	150	150
Connectors	N Female				
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature, °C	-40 to +60				
Mechanical Specifications					
Height, in (H x W X D) (mm)	86.5 x 24 x 40.25 (2197 x 610 x 1022) (In X Rack)				
Weight, lbs	DEPENDS ON SET-UP AND RACK DESIGN				
Mounting	X rack				