

**XPANDABLE TRANSMIT COMBINER****66-88 MHz****XTC-Xpandable 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 while using 10" cavities. Each cavity is constructed using a gold alodine finish, silver plated loops, silver plated connectors and 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
- 66-88 MHz, 22 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-06-72	XTC-06-74	XTC-06-76	XTC-06-78	XTC-07-10	XTC-07-12
Frequency Range, MHz	66-88	66-88	66-88	66-88	66-88	66-88
Bandwidth, MHz	22	22	22	22	22	22
Number of Channels	2	4	6	8	10	12
Cavity Diameter, in	6.625	6.625	6.625	6.625	6.625	6.625
Min. Channel Sep., KHz	50	50	50	50	50	50
Isolation Min., Tx-Tx, dB	70	70	70	70	70	70
Isolation Min., Ant-Tx, dB	60	60	60	60	60	60
Max. Insertion Loss Per Chan., dB	4.7	5.5	6	6.3	6.8	7.3
Continuous Power Input, Watts	150	150	150	150	150	150
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature °C	-40 to +60	-40 to +60	-40 to +60	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	XTC-06-72	XTC-06-74	XTC-06-76	XTC-06-78	XTC-07-10	XTC-07-12
Height, in (H x W X D) (mm) (In X Rack)	86.5 x 24 x 40.25 (2197 x 610 x 1022)					
Mounts in 19" Standard Rack	Yes	Yes	Yes	Yes	Yes	Yes
Weight	DEPENDS ON SET-UP AND RACK DESIGN					
Order Information	Single Cavity	2 - Channel	3 - Channel	5 - Channel	8 - Channel	
4" Cavity	XTC-06-41	XTC-06-42	XTC-06-43	XTC-06-45	XTC-06-48	
6.625" Cavity	XTC-06-71	XTC-06-72	XTC-06-73	XTC-06-75	XTC-06-78	
10" Cavity	XTC-06-01	XTC-06-02	XTC-06-03	XTC-06-05	XTC-06-08	