

XPANDABLE TRANSMIT COMBINER**380-512MHz****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 125 kHz Tx-Tx spacing or 75 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
- 380-512MHz, 132MHz 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-38-72	XTC-38-74	XTC-38-76	XTC-38-78	XTC-38-7-10	XTC-38-7-12
Frequency Range, MHz	380-512	380-512	380-512	380-512	380-512	380-512
Bandwidth, MHz	132	132	132	132	132	132
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	125	125	125	125	125	125
Isolation Min., Tx-Tx, dB	80	80	80	80	80	80
Isolation Min., Ant-Tx, dB	70	70	70	70	70	70
Max. Insertion Loss Per Chan., dB	4.1	5.2	5.7	6.0	6.2	6.4
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-38-72	XTC-38-74	XTC-38-76	XTC-38-78	XTC-38-7-10	XTC-38-7-12
Height, in (H x W X D) (mm) (In X Rack)	86.5 x 24 x 36 (2197 x 610 x 914)					
Mounts in 19" Standard Rack	Yes	Yes	Yes	Yes	Yes	Yes
Weight	DEPENDS ON SET-UP AND RACK DESIGN					
Order Information	Single Channel	2 - Channel	3 - Channel	5 - Channel	8 - Channel	
4" Cavity	XTC-38-41	XTC-38-42	XTC-38-43	XTC-38-45	XTC-38-48	
6.625" Cavity	XTC-38-71	XTC-38-72	XTC-38-73	XTC-38-75	XTC-38-78	
10" Cavity	XTC-38-01	XTC-38-02	XTC-38-03	XTC-38-05	XTC-38-08	