XPANDABLE TRANSMIT COMBINER 215-300MHz

XTC-Xpandable Transmit Combiner Series-10" 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 100 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 -40ºC to +60ºC. 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
- 215-300MHz, 85 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-22-02	XTC-22-04	XTC-22-06	XTC-22-08	XTC-22-0-10	XTC-22-0-12
Frequency Range, MHz	215-300	215-300	215-300	215-300	215-300	215-300
Bandwidth, MHz	85	85	85	85	85	85
Number of Channels	2	4	6	8	10	12
Cavity Diameter, in	10	10	10	10	10	10
Min. Channel Sep., KHz	75	75	75	75	75	75
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	4.2	5.1	5.5	5.8	6	6.2
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 ºC	-40 to +60	-40 to +60	-40 to +60	-40 to +60	-40 to +60	-40 to +60

Mechanical Specifications	XTC-22-02	XTC-22-04	XTC-22-06	XTC-22-08	XTC-22-0-10	XTC-22-0-12
Height, in (H x W X D) (mm) (In X Rack)	79.5 x 24 x 28.4 (2019 x 610 x 721)					
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-22-41	XTC-22-42	XTC-22-43	XTC-22-45	XTC-22-48
6.625" Cavity	XTC-22-71	XTC-22-72	XTC-22-73	XTC-22-75	XTC-22-78
10" Cavity	XTC-22-01	XTC-22-02	XTC-22-03	XTC-22-05	XTC-22-08

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