

# Low PIM Cross Band Coupler (CBC) 130 - 2700 MHz

**Model Number: CBC-130-870- 1700-2700**

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## Main Features & Benefits:

- **High Performance Cavity Design, With 300 watts power handling**
- **High Isolation – High Directivity**
- **Very Low Passive Intermodulation(PIM) with Extremely low insertion loss.**
- **Compact design, Easy installation, Built-in lightning protection**
- **IP67 enclosure - Suitable for indoor or outdoor applications, Wall or mast mounting, Exceptional reliability and environmental protection.**
- **External DC Stop available as an accessory, High input power.**

## Introduction

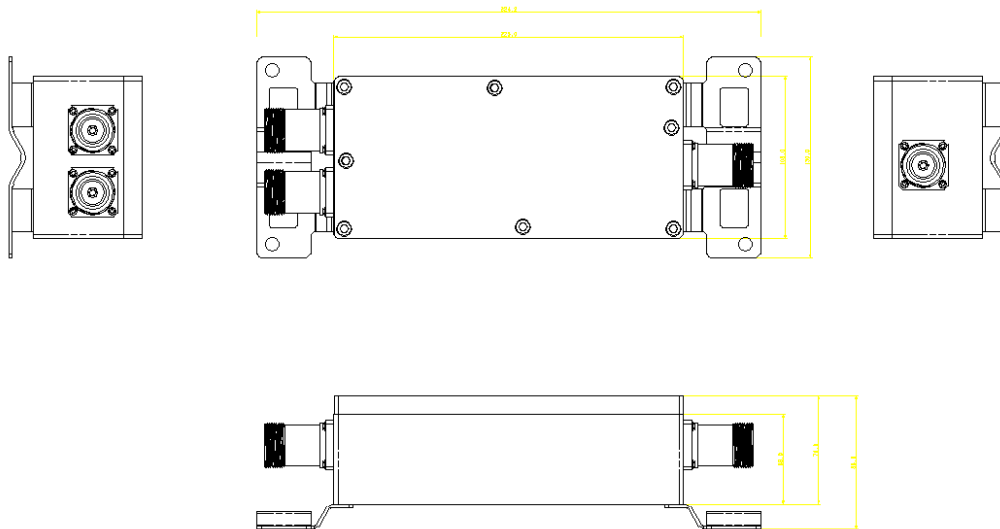
EMTS Telecom Cross Band Coupler (CBC) model CBC-130-870-1700-2700 is a high cavity combiner that use to combine BTS to a single antenna from both LMR VHF\ UHF networks and Cellular networks. The use of highly selective filters reduces the out of band inter-modulation products and minimize the interference to neighboring cells, high isolation level between ensuring an interference-free environment for any technology deployed. The EMTS innovative cavity filter design provides a very low insertion loss while keeping the product extremely compact and lightweight, Return Loss of more than 18dB makes the introduction of the device transparent to the BTS. The unit is designed to withstand the most severe outdoor environments. It's also features IP65 class protection to avoid any possible effects of condensation and pressure instability. Diplexers are unquestionably EMTS's core product line with success of designed features as high selectivity, high channel to channel isolation and extremely low insertion loss.



**EMTS Telecom Services** offers a comprehensive portfolio of enhanced coverage solutions for the Wireless Networks, Based on advanced technologies. **EMTS** proven, indoor and outdoor solutions solve a wide range of network challenges including interference and oscillation problems, challenging coverage holes, rapid response deployment and inadequate in-building coverage. Regardless of the technology or frequency, **EMTS** can provide customized coverage solutions that address any combination of unique and complex network needs for the Wireless Networks.

## Technical Specifications

Channels	Low band	High Band
Frequency Range	130-869 MHz	1710-2700MHz
Insertion Loss	≤0.2dB	≤0.2dB
Isolation	>60dB minimum , >65dB Typical	
Return Loss	<1.3 :1 @130-470MHz <1.22 : 1 @470-869MHz <1.22 :1 @1700-2600MHz	
Power Rating	300 Watt per input port	
PIM (IM3)	130-800 MHz < -155dBc @+43dBm*2 800-2700 MHz < -160dBc @+43dBm*2	
Impedance	50Ω	
Temperature Range	-20 to +65°C	
Environment Humidity	5% to 97%	
Installation Environment	Outdoor, IP67	
Connectors	DIN-Female	
Mounting	Pole or Wall Mount	
Material	Cavity: Aluminum silver-plated; Connector: Copper	



### About EMTS Telecom Services Ltd.:

EMTS is a leading supplier of high-quality RF coverage solutions designed to maximize wireless network coverage in difficult RF environments and complex settings. The company specializes in extending RF radio coverage to rural areas, office buildings, subways, tunnels and shadowed areas. The EMTS coverage solution supports all major mobile technologies and standards of wireless Networks.

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