

Features

- High input power of 100W.
- Permits combining of 2 GSM900, 3 GSM1800 and 3 UMTS operators.
- Low insertion loss.
- High inter-band isolation.



Product Description

The CS148 is one of a range of compact, low intermodulation, cellular combiners for cost effective, multi-operator in-building combining system. This high power combiner is designed to allow 2 GSM 900, 3 GSM 1800 and 3 UMTS operators to share the same system. Each individual input provides full duplex capability according to customer frequency bands, while providing >90dB isolation between 2G and 3G systems.

With extensive range of passive components, Comba is capable of providing solutions for almost any combination of frequency bands, ensuring systems work correctly, and keeping insertion loss to a minimum.

Technical Specifications

Electrical

Frequency Range (GSM900) - [MHz]	
- GSM900-A	RX: 901.2 - 915.0 TX: 946.2 - 960.0
- GSM900-B	RX: 890.1 - 900.9 TX: 935.1 - 945.9
Frequency Range (GSM1800) - [MHz]	
- GSM1800-A	RX: 1710.0 - 1730.5 TX: 1805.0 - 1825.5
- GSM1800-B	RX: 1759.9 - 1779.9 TX: 1854.9 - 1874.9
- GSM1800-C	RX: 1739.8 - 1755.0 TX: 1834.8 - 1850.0
Frequency Range (UMTS) - [MHz]	
- UMTS-A	RX: 1935.1 - 1950.1 TX: 2125.1 - 2140.1
- UMTS-B	RX: 1950.1 - 1964.9 TX: 2140.1 - 2154.9
- UMTS-C	RX: 1920.3 - 1935.1 TX: 2110.3 - 2125.1
Insertion Loss - [dB]	
- GSM900	< 5.0
- GSM1800	< 6.0
- UMTS	< 6.0
Isolation - [dB]	
- GSM900/GSM900	> 25
- GSM1800/GSM1800	> 25
- 3G/3G	> 33
- GSM900/GSM1800	> 90
- 2G/3G	> 90

Electrical (con't)

Number of Output Ports	2
Number of Monitor Ports	2
Signal Output at Monitor - [dBc]	-30 ± 2
3 rd Order IM3@ 2x43dBm - [dBc]	≥ 125
Input Power Rating Per Port - [W]	100
Return Loss, Input Port - [dB]	> 20
Return Loss, Output Port - [dB]	> 6
Impedance - [ohm]	50

Mechanical

Dimension LxWxH - [mm]	600 x 600 x 160
Weight - [kg]	40
Connector Type - Input	N-Female or 7/16 Din Female
Connector Type - Output	N-Female or 7/16 Din Female
Mounting	Wall Mount Case
Temperature Range - [°C]	-20 to +55
Operating Humidity - [%]	< 95
Environmental Class	Indoor