

### Features

- High input power of 100W.
- Permits combining of 1x CDMA, 1x GSM900 and 3x GSM1800 operators.
- Low insertion loss.
- High inter-band isolation.

### Product Description

The POI-00X is one of Comba range of compact, low intermodulation, cellular combiners that is designed for integration of cost effective, multi-operator in-building combining system. This high power combiner is designed to allow 1 CDMA, 1 GSM 900 and 3 GSM 1800 operators to share a common antenna system. Each individual input provides full duplex capability according to customer frequency bands, while providing high isolation between the 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.



PROVISIONAL

### Technical Specifications

#### Electrical

Frequency Range (GSM900) - [MHz]			
- GSM900	RX:	897.5 - 915	
	TX:	942.5 - 960	
Frequency Range (GSM1800) - [MHz]			
- GSM1800-A	RX:	1710.0 - 1722.6	
	TX:	1805.0 - 1817.6	
- GSM1800-B	RX <sub>1</sub> :	1722.6 - 1747.8	
	RX <sub>2</sub> :	1760.4 - 1784.8	
	TX <sub>1</sub> :	1817.6 - 1842.8	
	TX <sub>2</sub> :	1855.4 - 1879.8	
- GSM1800-C	RX:	1747.8 - 1760.4	
	TX:	1842.8 - 1855.4	
Frequency Range (CDMA) - [MHz]			
- CDMA	RX:	825 - 835	
	TX:	870 - 880	
Insertion Loss - [dB]			
- GSM900		< 5.0	
- GSM1800		< 6.0	
- CDMA		< 5.0	
Isolation - [dB]			
- GSM900/CDMA		> 50	
- GSM1800/GSM1800		> 45	
- GSM900/GSM1800		> 80	

#### Electrical (con't)

Number of Output Ports	2
Number of Input Ports	5
Number of Monitor Ports	2
Signal Output at Monitor - [dBc]	-30 ± 2
3 <sup>rd</sup> Order IM3@ 2x43dBm -[dBc]	≥ 125
Input Power Rating Per Port - [W]	100
Return Loss, Input Port - [dB]	> 20
Return Loss, Output Port - [dB]	> 18
Impedance - [ohm]	50

#### Mechanical

Dimension LxWxH - [mm]	TBD
Weight - [kg]	TBD
Connector Type - Input	N-Female
Connector Type - Output	N-Female
Mounting	Wall Mount Case
Temperature Range - [°C]	-20 to +70
Operating Humidity - [%]	< 95
Environmental Class	Indoor