

Features

- High input power of 100W.
- Permits combining of one PMDN, GSM900, GSM1800 and UMTS services.
- Low insertion loss of 5dB.
- High inter-band isolation of >90dB.
- Two combined output ports for split cable systems.
- Compact size permits space saving wall mount.



Product Description

The POI-006 is one of a range of compact, low intermodulation, cellular combiners for cost effective, multi-band in-building combining system. This high power combiner is designed to combine 1 PMDN, GSM900, GSM1800 and UMTS to share the same system. Each individual input provides full duplex capability according to customer frequency bands, while providing >95dB isolation between 2G and 3G systems. Main applications are in convention centers, exhibition halls, airports, underground tunnels and other large buildings.

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 – [MHz]		
- PMDN, Uplink:		811.0 – 818.0
- PMDN, Downlink:		856.0 – 863.0
- GSM900, Uplink:		901.2 – 915.0
- GSM900, Downlink:		946.2 – 960.0
- GSM1800, Uplink:		1710.0 – 1730.4
- GSM1800, Downlink:		1805.0 – 1825.4
- UMTS, Uplink:		1935.1 – 1950.1
- UMTS, Downlink:		2125.1 – 2140.1
Insertion Loss – [dB]		
- PMDN		< 5
- GSM900		< 5
- GSM1800		< 5
- UMTS		< 5
Isolation – [dB]		
- PMDN/GSM900/GSM1800		> 90
- 2G/3G		> 95
Input Power Rating Per Port – [W]		100
Return Loss, Input Port – [dB]		> 20
Return Loss, Output Port – [dB]		> 15
Impedance – [ohm]		50
3 rd Order IM3 @ 2 x 43dBm – [dBc]		<-150

Mechanical

Dimension LxWxH – [mm]	557 x 320 x 185
Weight (approx.) – [kg]	25
Number of Output Ports	2
Number of Input Ports	4
Connector Type - Input	N-Female
Connector Type - Output	N-Female
Mounting	Wall Mount Case
Temperature Range – [°C]	-20 to +55
Operating Humidity – [%]	< 95
Environmental Class	Indoor