

Features

- High input power of 100W and 50W.
- Permits combining of 1xCDMA800, 1xGSM900, 3xGSM1800 and 1xGSM1900 operators.
- Low insertion loss.



Product Description

The POI-014T is a cellular transmit combiner for cost effective, multi-operator in-building combining system. This high power combiner is designed to combine 1xCDMA800, 1xGSM900, 3xGSM1800 and 1 GSM1900 operators to provide 2 outputs. Each individual input is customized to individual operator's frequency band, while providing >20dB isolation between input ports.

Technical Specifications

Electrical

Number of Input Ports	6
Number of Output Ports	
- RF Output	2
- Test Port	1
- E/O Port (1800MHz)	1
- E/O Port (1900MHz)	1
Frequency Range (Transmit) - [MHz]	
- CDMA 800	870 - 880
- GSM 900	942.5 - 960
- GSM 1800 - 1	1805.0 - 1817.6
- GSM 1800 - 2	1817.6 - 1842.9
	1855.5 - 1880
- GSM 1800 - 3	1842.9 - 1855.5
- GSM 1900	1965 - 1980
Insertion Loss (Input-Output) - [dB]	
- CDMA800/GSM900	< 5.5
- GSM1800/1900	< 6.5
Insertion Loss (Input - E/O) - [dB]	< 38
Isolation - [dB]	
- All Input Ports	> 20
- E/O Output Ports	> 25

Electrical (con't)

Input Power Rating Per Port - [W]	
- CDMA800/GSM900	≤ 100
- GSM1800/1900	≤ 50
Return Loss, Input Port - [dB]	
- CDMA800/GSM900	> 16
- GSM1800/1900	> 18
Return Loss, Output Port - [dB]	> 15
3rd Order IM3 @ 2x43dBm - [dBc]	< 120
Impedance - [ohm]	50

Mechanical

Dimension DxWxH - [mm]	473 x 483 x 266
Mounting	19" Rack Mount
Weight - [kg]	Approx 40
RF Connector Type	N-Female
Reliability - [hr]	> 100,000
Operating Temperature - [°C]	-10 to +45
Operating Humidity - [%]	< 95
Environmental Class	Indoor

Block Schematic

