

Indoor Penta-Band Combiner

CM-ACJPY5-IA1

Low PIM, Penta-Band Combiner, 4.3-10 Female
(700/800/Extended PCS/AWS1&3/WCS+2.6G)

- Band1: 698-798MHz / Band2: 817-894MHz / Band3: 1850-1995MHz
Band4: 1695-1780MHz & 2110-2180MHz / Band5: 2305-2690MHz
- 19 inch Rack mounting, 1RU height
- Designed for feeder sharing and co-siting purpose
- High isolation between ports to minimize interferences
- Suitable for indoor environment



Electrical Specification

Frequency (MHz)	698-798	817-894	1850-1995	1695-1780/ 2110-2180	2305-2690
Insertion Loss (dB)			≤ 0.6		
Pass Band Ripple (dB)			≤ 0.5		
Return Loss (dB)			≥ 18, typical 20		
Isolation Between Ports (dB)					
698-798MHz	x	60	80	80	80
817-894MHz	60	x	80	80	80
1850-1995MHz	80	80	x	60	60
1695-1790/2110-2180MHz	80	80	60	x	60
2305-2690MHz	80	80	60	60	x
PIM (dBc)			≤ -155 @ 2 x 43dBm		
Coupling Value at Com Port (dB)	43.0 ± 2.0	43.0 ± 2.0	36.5 ± 2.0	36.5 ± 2.0	34.0 ± 2.0
Input Power Per Port, max (W)	60	60	60	60	60
Impedance (ohm)			50		

Mechanical Specification

Dimension (in/mm)	19.0x10.6x1.8 / 483.0x270.0x44.5
Weight (lb/kg)	15.0 / 6.8
Shipping Dimension(in/mm)	TBD
Shipping Weight(lb/kg)	TBD
Connector	4.3-10 –Female; All Input ports & Output port SMA-Female; coupling port
DC Bypass	NO DC bypass for all ports

Environment & Compliance

Application	Indoor
Operating Temperature	-35°C to +85°C
Environment	IP30
Relative Humidity	Up to 100%
RoHS	Compliant

Block Diagram



