

Hybrid Coupler

694-3800MHz

SP6938-220x-4.3 Series

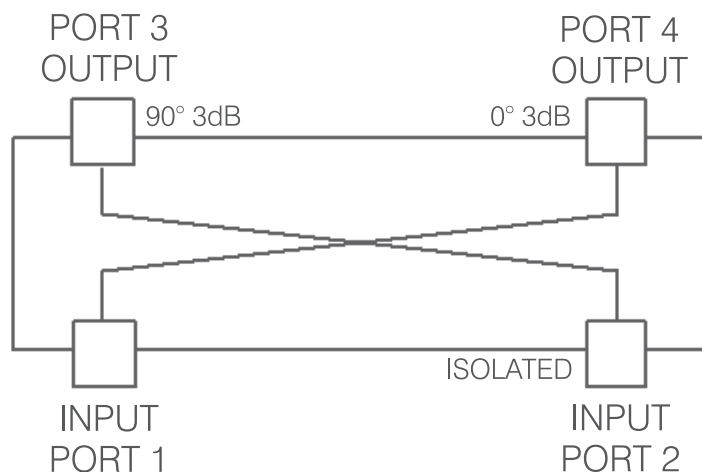


The 2x2 and 4x4 Hybrid Couplers cover all cellular bands from 694 to 3800MHz with a low loss Passive Inter-Modulation, high Peak Instantaneous Power and high environmental IP rating. Typically used to combine either in-band carriers or carriers across multiple bands to be fed into antenna feeders or In-Building leaky feeder or in-building Distributed Antenna Systems. Designed to IP67, the Hybrid Coupler can be used in both indoor and outdoor applications.



Features:

- Broadband 694-3800MHz covering all cellular bands.
- 2x2 or 4x4 options available
- Suitable for use in high power multi-carrier transmission systems
- Manufactured to a low PIM ≤ -160 dBc (3rd ORder 2x43dBm carriers) rating, with 4.3-10 connectors
- PIP Rating of 1000W
- Environmental IP67 rating



Technical Specifications

Model Number	SP6938-2203-4.3	SP6938-2206-4.3
Frequency Range MHz	694-3800	
Coupling dB	3.1 (+/- 0.5)	6.0 (± 1.2)
Isolation dB	>25 @ 694-2700MHz, <22 @ 2701-3800MHz	
Return Loss	> 17dB / 1.3:1	
Average Power Rating W (per port)	300	200
Peak Power Rating (PIP) W	1000	
PIM (3rd Order 2x43dBm) dBc	≤ -160	
Impedance Ω	50	
Connector Type (all termination ports)	4.3-10 (F)	
IP Rating	IP67	
Finish	Black - Painted	
Dimensions (incl connectors) mm/inches	144.5 x 91 x 37.5 / 5.7 x 3.6 x 1.5	305 x 128.5 x 41 / 12 x 5.1 x 5.0
Weight kg/lbs	1.0 / 2.2	2.4 / 5.3
Temperature $^{\circ}\text{C}/^{\circ}\text{F}$	-25 to +65 / -13 to 149	