

# Hybrid Coupler

800-2500MHz

4-Port Strip-Line 90deg Quadrature Hybrid Coupler

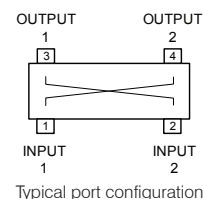
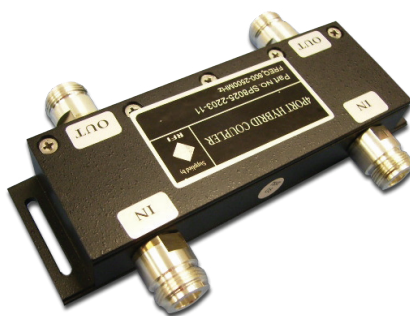
SP8025-22xx-11 Series



RFI Hybrid Couplers are used in a variety of RF combining, sampling and power splitting applications. Typically used in transmitter combining and DAS (Distributed Antenna Systems) for coupling and distributing multi-carriers throughout feeder cable and antenna networks. RFI provide a wide product range of balanced and unbalanced coupling values in the most popular frequency bands which enables optimised system levels.

## Features:

- Couple multi-carrier inputs into balanced or unbalanced outputs
- Compact and robust construction
- Suitable for use with analogue or digital RF communications
- Broadband covering full multi cellular bands
- Termination connector options available on request
- Optimise RF power levels through pre-determined coupling values
- Wide operating temperature range



Model Number	SP8025-22xx-11							
Frequency Range	800-2500MHz							
Model Number Derivative - SP8025-22xx-11	03	04	06	07	10	15	20	30
Decoupling level +/- 0.25 (Port 1 to 3 / Port 2 to 4)	3dB	4dB	6dB	7dB	10dB	15dB	20dB	30dB
Insertion loss - Typical (Port 1 to 4 / Port 2 to 3)	3.1dB	1.8dB	1.4dB	1.0dB	0.5B	0.2dB	<0.1dB	<0.1dB
Power Rating	200W							
Impedance	50 Ohms							
Input Return Loss / VSWR - Typical	18dB / 1.3:1							
Input and output port to port to isolation	> 20dB							
Connector Types (all termination ports)	N (F)							
Mounting	2 x 3.1mm OD non-threaded holes through unit body							
Finish	Black - Painted							
Dimensions (excl connectors)	H 45mm x W 26mm x L 220mm / H 1.77" x W 1.02" x L 8.67"							
Weight	0.75kgs / 1.65lbs							
Temperature Range	-30° C to +60° C / -22° F to +140° F							

Ordering Information	Description
SP8025-2203-11	Hybrid Coupler 800-2500MHz , 4-Port 3dB Coupling Loss N (F) Connectors
SP8025-2204-11	Hybrid Coupler 800-2500MHz , 4-Port 4dB Coupling Loss N (F) Connectors
SP8025-2206-11	Hybrid Coupler 800-2500MHz , 4-Port 6dB Coupling Loss N (F) Connectors
SP8025-2207-11	Hybrid Coupler 800-2500MHz , 4-Port 7dB Coupling Loss N (F) Connectors
SP8025-2210-11	Hybrid Coupler 800-2500MHz , 4-Port 10dB Coupling Loss N (F) Connectors
SP8025-2215-11	Hybrid Coupler 800-2500MHz , 4-Port 15dB Coupling Loss N (F) Connectors
SP8025-2220-11	Hybrid Coupler 800-2500MHz , 4-Port 20dB Coupling Loss N (F) Connectors
SP8025-2230-11	Hybrid Coupler 800-2500MHz , 4-Port 30dB Coupling Loss N (F) Connectors