

# Hybrid Coupler

800-2700MHz

4-Port Strip-Line 90deg Quadrature Hybrid Coupler

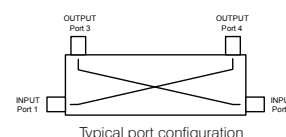
SP8027-25xx-11 Series



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
- Low PIM for Multi-carrier use
- Compact and robust construction
- Suitable for use with analogue or digital RF communications
- Broadband covering multi-cellular bands
- Termination connector options available on request
- Optimise RF power levels through pre-determined coupling values
- Wide operating temperature range



Model Number	SP8027-25xx-11	
Frequency Range	800-2700MHz	
Model Number Derivative - SP8027-25xx-11	04	06
Decoupling level +/- 0.25 (Port 1 to 3 / Port 2 to 4)	4.8dB	6dB
Insertion loss - Typical (Port 1 to 4 / Port 2 to 3)	1.75dB	0.5B
Power Rating	200W	
Impedance	50 Ohms	
Input Return Loss / VSWR - Typical	18dB / 1.3:1	
Input and output port to port to isolation	> 25dB	
PIM (3rd Order 2x43dBm)	< 140dBc	
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 40mm x W 17mm x L 120mm / H 1.57" x W 0.67" x L 4.72"	
Weight	0.64kgs / 1.4lbs	
Temperature Range	-30° C to +70° C / -22° F to +158° F	

Ordering Information	Description
SP8027-2504-11	Hybrid Coupler 800-2700MHz , 4-Port 4dB Coupling Loss N (F) Connectors
SP8027-2506-11	Hybrid Coupler 800-2700MHz , 4-Port 6dB Coupling Loss N (F) Connectors