



SUCOceed™ PASSIVE SYSTEM COMPONENTS

HYBRID COUPLERS

The Hybrid Couplers have been designed to meet the special needs of the wireless market. They are most commonly used to combine two wireless bands to a single antenna feed or distribution cable. This requires the termination of one output and results in a 3 dB loss in each band. In situations where two similar feeds are required, such as in an in-building application, both outputs may be used eliminating the need for a termination and the 3 dB loss.



Features

- For single- or multi-band applications
- High isolation, low VSWR
- 200W average RF power handling
- Low passive intermodulation (PIM)
- Optional N or DIN 7/16 RF connectors
- Connectors silverplate finished to QQ-S-365, CL 1A for maximum electrical continuity
- Moisture sealed for outdoor applications
- Convenient connector spacing

Specifications

Frequency range	MHz	800 - 2200	800 - 960	1710 - 2200
Impedance (nominal)	Ω	50		
VSWR		< 1.2:1	< 1.10:1	< 1.20:1
Input isolation	dB	> 30		
Coupling	dB	3.1 \pm 0.2	3.1 \pm 0.25	3.1 \pm 0.25
Dissipative loss	dB	< 0.2		
RF power handling: average peak	W	120	200	200
	kW	3.0	3.0	3.0
Passive intermodulation (PIM)	dBc	< -140 @ 2 x 20 W		
Temperature range	$^{\circ}\text{C}$	-55 to +125		
Connectors		N or DIN 7/16 female		
Dimensions (W x H x D)	mm	140 x 125 x 40	89 x 123 x 40	89 x 133 x 40
	inch	5.5 x 4.91 x 1.56	3.5 x 4.84 x 1.56	3.5 x 5.24 x 1.56

Ordering Information

Article No.	Type No.	Description
22664638	9561.52.0025	Hybrid Coupler, 800 to 2200 MHz, N female
22664639	9561.52.0026	Hybrid Coupler, 800 to 2200 MHz, DIN 7/16 female
22664687	9561.52.0043	Hybrid Coupler, 800 to 960 MHz, N female
22664688	9561.52.0044	Hybrid Coupler, 800 to 960 MHz, DIN 7/16 female
22664689	9561.52.0045	Hybrid Coupler, 1710 to 2200 MHz, N female
22664690	9561.52.0046	Hybrid Coupler, 1710 to 2200 MHz, DIN 7/16 female

Waiver

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