

**NEW**

## Dual Band Hybrid Coupler/Combiner

*30 dB isolation, 800–2,200 MHz*

*7-16 DIN or N connectors*

**D**ual Band Hybrid Coupler/Combiners from Andrew Corporation are used to combine two wireless carriers to a single antenna feed or distribution cable.

One output port must be terminated into a 50  $\Omega$  load, or if two similar feeds are required, both outputs may be used. This eliminates the need for a termination and the 3 dB loss.

Special attention was taken in these versions to maximize isolation in the wireless bands and to minimize passive intermodulation (PIM).

Moisture-sealed to meet IP65 for outside applications, the Dual Band Hybrid Coupler/Combiners feature specially spaced connectors to allow controlled wrench tightening.

### Features:

- *High 30 dB isolation, low VSWR*
- *Combines non-coherent signals*
- *120W average power rating*
- *Moisture-sealed for outdoor applications*
- *Convenient connector spacing*
- *7-16 DIN (245567) or N (245566) standard connectors*

**Designed to meet the special needs of the wireless market by combining two wireless signals to a single feed or cable.**

Number 245567 with 7-16 mm DIN



Number 245566 with N connector



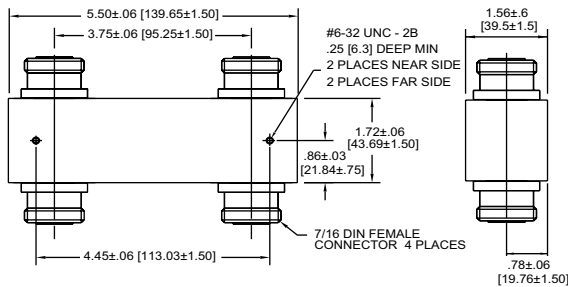
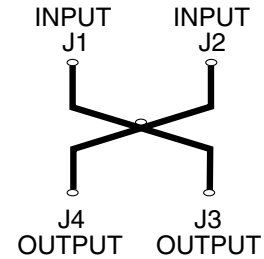
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**Specifications for the Dual Band Hybrid Coupler/Combiners**

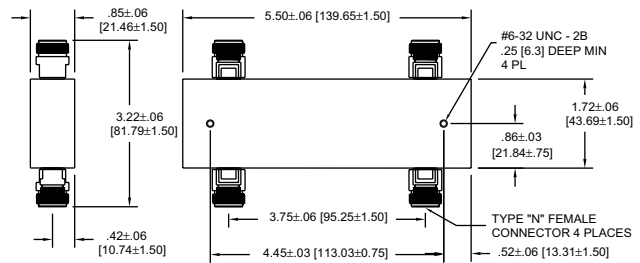
**Electrical Specifications**

<b>Type Number</b>	<b>245567 (7-16 DIN) and 245566 (N)</b>
<b>Frequency Range</b>	800–2,200 MHz
<b>Input Isolation</b>	>30 dB
<b>Coupling</b>	3.1 ± 0.2 dB
<b>Frequency Sensitivity</b>	± 0.2 dB
<b>VSWR</b>	1.20:1 max
<b>Impedance</b>	50 Ω nominal
<b>Power</b>	120W avg, 3kW peak
<b>Temperature Range</b>	-67° to 257°F (-55° to +125°C )
<b>PIM (Intermodulation)</b>	<-140 dBc (@2, + 43 dBm tones)
<b>Connectors</b>	Silver plate

Configuration:



**Andrew Type Number 245567  
with 7-16 DIN connector**



**Andrew Type Number 245566  
with N connector**



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