

# IP67 10dB L-Band Directional Coupler

850 - 2450 MHz

850-2450 MHz  
Operating frequency  
range



Compact  
Housed in rugged  
compact enclosure

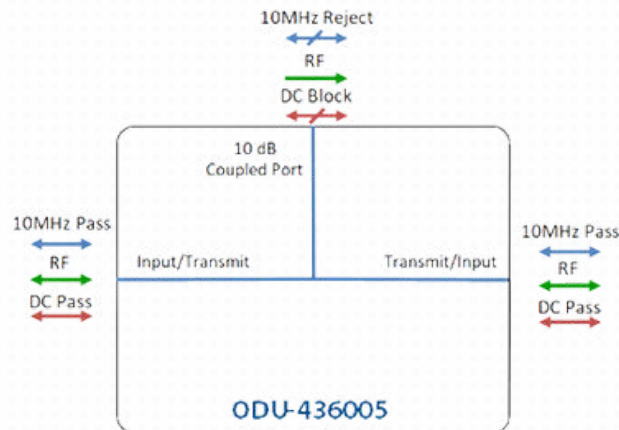
Flexible mounting  
Through-hole mounting  
options

## RF Parameters

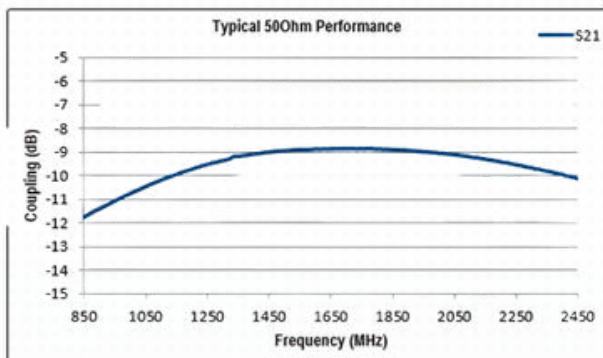
|                          |                |       |
|--------------------------|----------------|-------|
| Model Variation          | N5N5N5         |       |
| Frequency Range          | 850 - 2450 MHz |       |
| RF Connectors            | 50Ω N-Type     |       |
| Mean Coupling Factor     | 10 ± 1.0 dB    |       |
| Mean Insertion Loss*     | 1.5 dB         |       |
| Through Path Flatness    | ± 0.5 dB typ.  |       |
| Coupled Port Flatness    | ± 1.5 dB typ.  |       |
| Return Loss Thru Line    | Typ.           | 16 dB |
|                          | Min.           | 14 dB |
| Return Loss Coupled Port | Typ.           | 14 dB |
|                          | Min.           | 10 dB |
| Directivity**            | 14 dB typ.     |       |

| Operating Parameters  |                          |
|-----------------------|--------------------------|
| Input RF Power        | 37 dBm 5W                |
| DC Voltage            | 35V on any RF port       |
| Environmental         |                          |
| Operating Temperature | -40°C to +85°C           |
| Storage Temperature   | -50°C to +100°C          |
| Location              | Indoor/Outdoor IP67* use |
| Humidity              | 95% non-condensing       |
| Altitude              | 10,000 feet AMSL         |

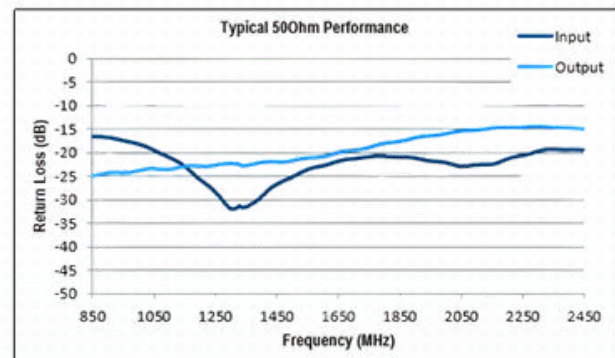
## Diagram



## Test Plot



Coupled Port



Return Loss

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

Note 3: IP67 integrity is maintained by populating all ports with sufficiently rated connectors and that unused ports have IP67 terminators or dust caps when awaiting connection. Dust caps are not sold with this product.