

# Hybrid Couplers up to 40 GHz



## TECHNICAL SPECIFICATIONS

- **Frequency Range**  
DC to 40 GHz
- **Configuration**  
90-degree and 180-degree hybrid designs
- **Coupling Factor**  
3 dB ( $\pm 0.5$  dB typical)
- **Connector Types**  
SMA, N-type, 2.92mm interfaces
- **Performance**  
Return loss and insertion loss optimized across bandwidth
- **Form Factor**  
Compact designs suitable for dense RF assemblies

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## APPLICATIONS

5G/6G & Telecommunications:  
Signal distribution in base  
station amplifier chains and  
frontend modules

SATCOM Systems: Frequency  
translation and phase-coherent  
signal processing

Defense & Aerospace: Phased  
array systems, radar signal  
conditioning, electronic warfare  
platforms

Test & Measurement: Network  
analyzer calibration, power  
measurement networks,  
prototype characterization

Amplifier Design: Input/output  
matching and impedance  
transformation in LNA and HPA  
implementations