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RF COUPLERS — HIGH DIRECTIVITY

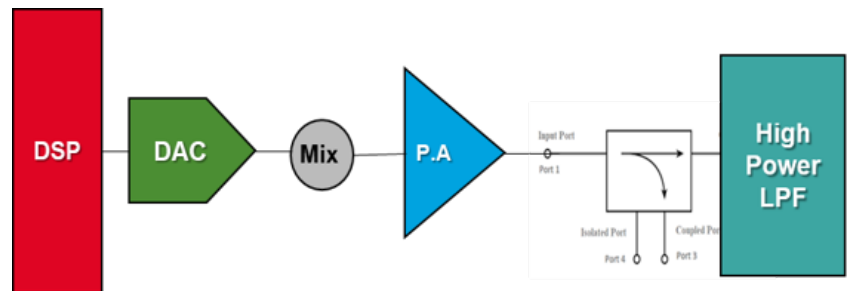
CP2816 (High Power) Series 20W

KEY FEATURES

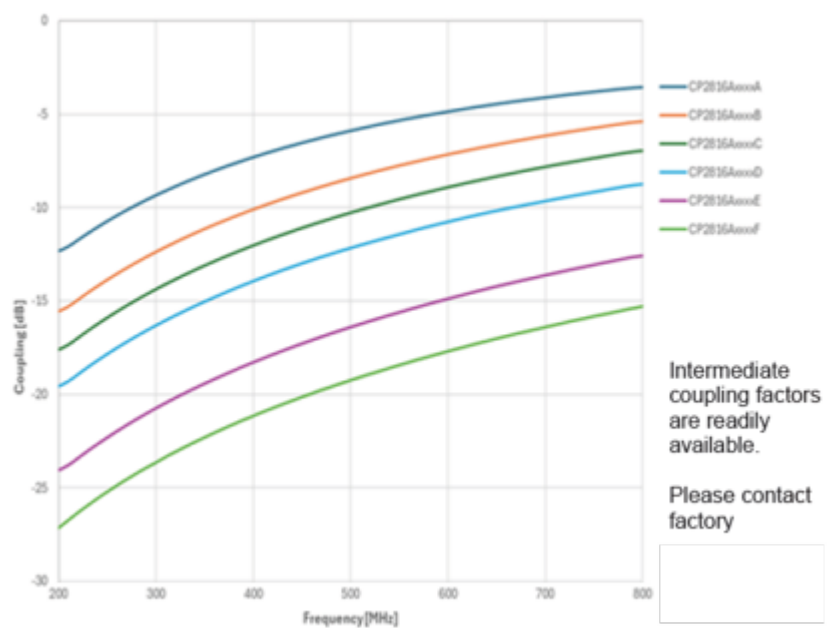
- High power handling in a compact 2816 package supports dense RF assemblies where board space and thermal performance are important
- Wide operating frequency range, starting as low as 150 MHz, supporting a broad variety of RF and microwave designs
- Low insertion loss of 0.2 dB helps minimize signal attenuation and maintain efficient power transfer through the main RF path
- Wide coupling-factor range: -30 dB up to -4 dB enables design flexibility for signal sampling, monitoring, feedback, and power-control functions
- Thin-film multilayer construction provides repeatable RF performance, rugged construction, and reliable surface-mount assembly
- High rated Power per size: 0402 (3W), 0603 (5W), 0805 (10W), 1206 (12W), 2816 (20W)



SCHEMATIC USE CASE

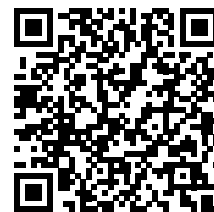


AVAILABLE PART NUMBERS



Typical Applications

- VHF/UHF Radios
- Handheld & Tactical Communication Systems
- RF Feedback Loops
- Power Amplifier Protection
- Antenna Systems
- Base Stations
- Radar Equipment
- Commercial Aerospace
- Defence Systems
- Test Equipment



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RF COUPLERS — SINGLE SIGNAL

Wide Band Couplers

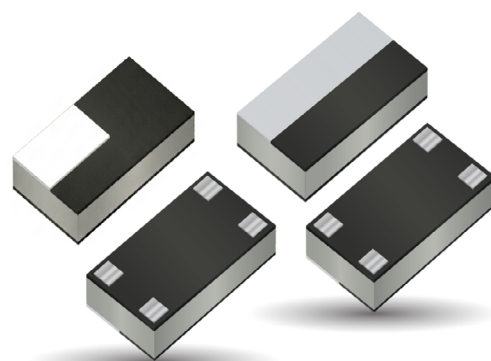
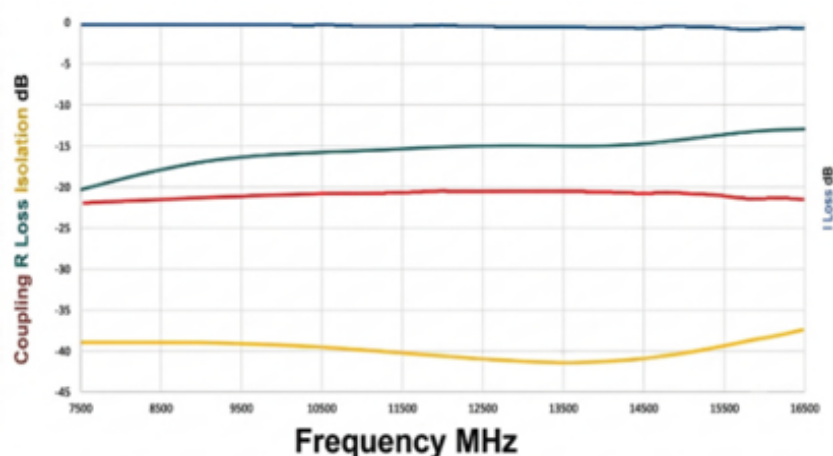
KEY FEATURES

- High directivity enables accurate sampling of forward RF signals while minimizing unwanted coupled signals
- Low insertion loss helps maintain signal strength and reduces power loss in the main transmission path
- Wide operating frequency band from 500 MHz to 16 GHz supports multiple RF and microwave applications using the same compact coupler platform
- Wide range of coupling factors provides flexibility for power monitoring, feedback control, signal sampling, and test-point design
- Stable electrical performance over the full frequency range supports consistent coupling accuracy and predictable system behavior
- Small 0402 and 0603 LGA packages provide a low-profile, low-parasitic solution for high-density surface-mount RF designs

TYPICAL APPLICATIONS

- Satellite Communications
- Mobile Communications
- GPS & Vehicle Location Systems
- Satellite TV Receivers
- SATCOM
- RF Power Monitoring
- Power Amplifier Control
- Antenna Matching
- VSWR Monitoring
- Test Equipment
- Compact Wireless Modules

COUPLING, RETURN LOSS 16GHz



P/N	Frequency Band [GHz]	Coupling [dB]	I. Loss Max. [dB]	Return Loss [dB]	Directivity [dB]
CP0402W16G0ANTR	8 – 16	-20.5 ± 2	-0.7	-13	-8dB @ 16GHz
CP0603W16G0ANTR	8 – 16	-21 ± 2	-0.8	-12	-8dB @ 16GHz