

Directional Coupler

TIDCXX-0727-NF

Trilogy's directional coupler design is rated for a minimum frequency of 698 MHz and a maximum frequency of 2700 MHz. Units couple off a defined fraction of signal with minimal reflections or loss. Availability in a wide range of coupling values makes this series useful in optimizing the signal distribution required in passive distributor radio access network(D-RAN). The extremely wide frequency range allows use with multi-band antennas, leaky cable systems and wireless base stations. With minimal solder joints and a low loss dielectric, the dissipative loss has been minimized and reliability enhanced.

Technical Specifications

Frequency: 698 to 2,700 MHz
 VSWR: 1.25:1
 PIM: -153 dBc (@2x +43 dBm)
 Power: 200 W avg., 1 kW pk*
 Impedance: 50Ω nom.
 Environment: -35°C to +70°C,
 Housing Finish: Black paint
 Connectors: N Female
 Weight, nom: 180gra



Part Number	Coupling nom. dB	Frequency Sensitivity dB	Directivity dB	Coupled Loss, max dB
TIDC05-0727-NF	5	±0.8	20	2.0
TIDC06-0727-NF	6	±0.8	20	1.75
TIDC08-0727-NF	8	±0.8	20	1.45
TIDC10-0727-NF	10	±1.0	20	0.8
TIDC13-0727-NF	13	±1.0	20	0.6
TIDC15-0727-NF	15	±1.1	20	0.5
TIDC20-0727-NF	20	±1.2	20	0.4

