Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

High Power Dual-Directional Coupler

0.6-2.7GHz/50dB Coupling/N Female Model: TDC-006027-50N-800

TDC-006027-50N-800 is a high power dual-directional coupler that delivers a 50 dB nominal coupling level and 20 dB minimum directivity across the full frequency range from 0.6 to 2.7GHz. It is a four-port passive device that can couple a portion of the power from the main transmission line to the auxiliary line in a directional manner.

Features:

- Output Frequency: 0.6-2.7GHz
- Max Power: 800W
- Stackable mechanical design
- Low Insertion Loss
- Moderate Directivity
- 50 Ohm Matched Input / Output

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	0.6		2.7	GHz
Insertion Loss(Excl coupling)			0.3	dB
Coupling		50±1.2		dB
Directivity	20			dB
Main Line VSWR			1.3	:1
Power Handling			800	W
Impedance		50		Ohms

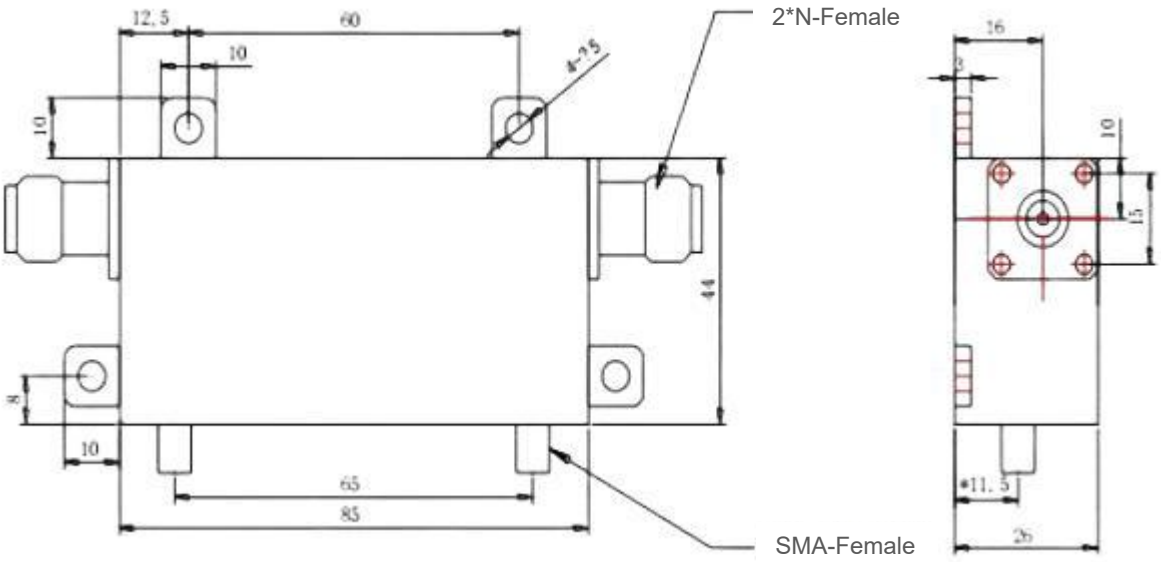
Mechanical Specifications:

Parameter	Value	Units
Operating Temperature	-45 to +85	℃
RF Connector	N Female	
Coupling Connector	SMA Female	
Size	85*44*26	mm

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Outline Drawing:

Unit:mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

Base Number	Description	Revision
TDC-006027-50N-800	High Power Dual-Directional Coupler 0.6-2.7GHz, Coulping:50dB, N/SMA Female	Rev.1.0