

## Coax Directional Coupler

### 0.5-6GHz/50dB Coupling/L29 Female/SMA Female

**Model: TDC-0560-50L29-1000W**

TDC-0560-50L29-1000W is a coax directional coupler that delivers a 50 dB nominal coupling level and 14 dB minimum directivity across the full frequency range from 0.5 to 6GHz. 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: 0.5-6GHz
- Max Power: 1000W(CW)
- Stackable mechanical design
- Low Insertion Loss
- Moderate Directivity
- 50 Ohm Matched Input / Output

#### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

#### Electrical Characteristics:

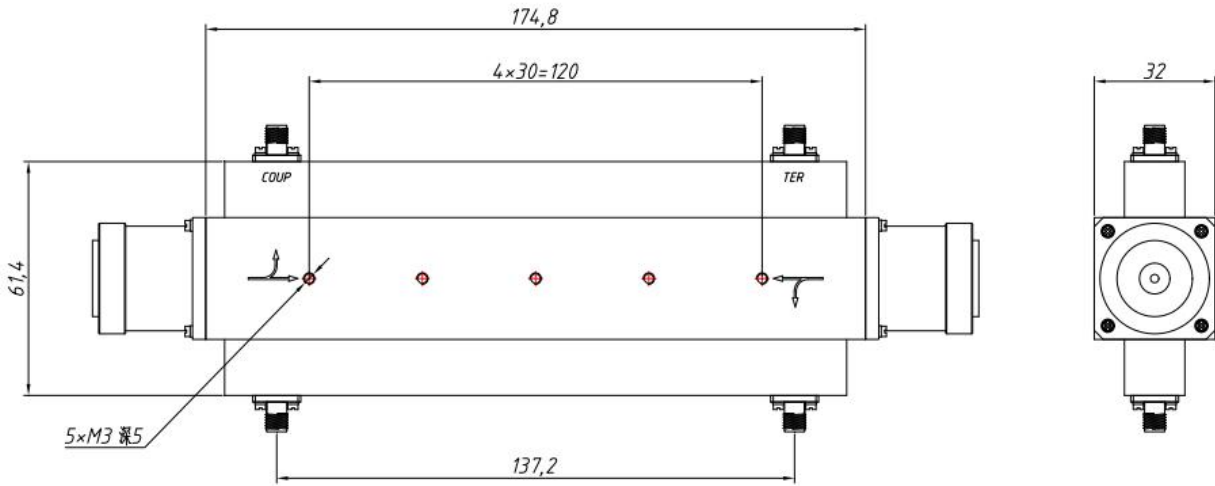
| Parameter       | Min      | Typ    | Max | Units |
|-----------------|----------|--------|-----|-------|
| Frequency Range | 0.5      |        | 6   | GHz   |
| Insertion Loss  |          |        | 0.5 | dB    |
| Coupling        |          | 50±1.0 |     | dB    |
| Directivity     | 14       |        |     | dB    |
| VSWR            |          |        | 1.4 | :1    |
| Power Handling  | 1000(CW) |        |     | W     |
| Impedance       |          | 50     |     | Ohms  |

#### Envrionmental And Physical Characteristics:

| Description           | Parameter                   | Units |
|-----------------------|-----------------------------|-------|
| Input/Output Port     | L29 Female                  |       |
| Coupling Port         | SMA Female                  |       |
| Operating Temperature | -55~+85°C                   |       |
| Finish                | Ture color conductive oxide |       |
| Size                  | 174.8*61.4*32               | mm    |

## Outline Drawing:

Unit:mm



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

## Ordering Information:

| Base Number          | Description                                                                | Revision |
|----------------------|----------------------------------------------------------------------------|----------|
| TDC-0560-50L29-1000W | Coax Directional Coupler<br>0.5-6GHz, Coupling:50dB, L29 Female/SMA Female | Rev.1.0  |