

# Eight-ways Coaxial Power Divider

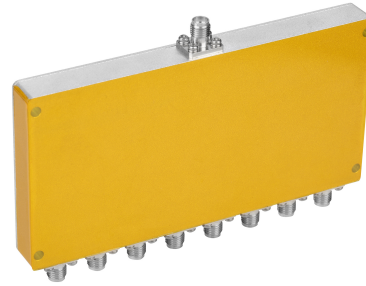
P/N: YX-PD8-6G-18G

## Features

- It can realize the customized design scheme
- Excellent amplitude and phase consistency
- Low loss and High isolation

## Typical Applications

- Mobile communication field
- GSM,LTE,5G
- Satellite radar, electronic countermeasures
- Test equipment



## Electrical&Mechanical Specifications

| Parameter                 |               | Min.                                | Typ. | Max. | Units |        |
|---------------------------|---------------|-------------------------------------|------|------|-------|--------|
| Frequency Range           |               | 6                                   |      | 18   | GHz   |        |
| Insertion Loss            |               |                                     | 10   | 10.5 | dB    |        |
| Isolation                 |               | 18                                  | 20   |      | dB    |        |
| Input VSWR                |               |                                     | 1.5  | 1.7  | : 1   |        |
| Output VSWR               |               |                                     | 1.35 | 1.5  | : 1   |        |
| Amplitude Imbalance       |               |                                     | ±0.4 | ±0.5 | dB    |        |
| Phase Imbalance           |               |                                     | ±6   | ±8   | deg   |        |
| Power Rating              | Forward Power | 30                                  |      |      |       | W      |
|                           | Reverse Power | 1                                   |      |      |       |        |
|                           | Peak Power    | 300<br>(10%DutyCycle,1usPulseWidth) |      |      |       |        |
| Impedance                 |               | 50                                  |      |      |       | Ohms   |
| Weight                    |               | NA                                  |      |      |       | Ounces |
| Input / Output Connectors |               | S M A – Female                      |      |      |       |        |
| Material                  |               | Aluminum                            |      |      |       |        |
| Finish                    |               | Oxidation sandblasting              |      |      |       |        |

## Environmental Specifications

|                         |                                                                                  |
|-------------------------|----------------------------------------------------------------------------------|
| Operational Temperature | -40°C~+85°C                                                                      |
| Storage Temperature     | -50°C~+105°C                                                                     |
| Altitude                | 30,000 ft. (Epoxy Sealed Controlled environment)                                 |
|                         | 60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional) |
| Vibration               | 25gRMS (15 degrees 2KHz) endurance, 1 hour per axis                              |
| Humidity                | 100% RH at 35°C, 95%RH at 40°C                                                   |
| Shock                   | 20G for 11msec half sine wave, 3 axis both directions                            |

## Outline Drawing:

All Dimensions in mm (inches)

Outline Tolerances  $\pm 0.5(0.02)$

Mounting Holes Tolerances  $\pm 0.2(0.008)$

