

# Engineering Development Model

## Power Splitter/Combiner

## ADP-ED7874/1

### 2 Way-0°

#### Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



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CASE STYLE : CD636

| ELECTRICAL SPECIFICATIONS 75Ω @ +25°C |                |      |       |            |
|---------------------------------------|----------------|------|-------|------------|
| Parameter                             |                | Min. | Typ.  | Max. Units |
| Frequency                             |                | 0.5  |       | 1000 MHz   |
| Isolation                             | 0.5 - 5 MHz    |      | 30    | dB         |
|                                       | 5 - 500 MHz    |      | 29    | dB         |
|                                       | 500 - 1000 MHz |      | 16    | dB         |
| Insertion Loss Above 3.0 dB           | 0.5 - 5 MHz    |      | 0.23  | dB         |
|                                       | 5 - 500 MHz    |      | 0.25  | dB         |
|                                       | 500 - 1000 MHz |      | 0.76  | dB         |
| Phase Unbalance                       | 0.5 - 5 MHz    |      | 0.005 | deg.       |
|                                       | 5 - 500 MHz    |      | 0.098 | deg.       |
|                                       | 500 - 1000 MHz |      | 0.301 | deg.       |
| Amplitude Unbalance                   | 0.5 - 5 MHz    |      | 0.010 | dB         |
|                                       | 5 - 500 MHz    |      | 0.010 | dB         |
|                                       | 500 - 1000 MHz |      | 0.130 | dB         |
| VSWR                                  | SUM Port       |      | 1.13  | (:1)       |
|                                       | OUT Ports      |      | 1.14  | (:1)       |

**Note:** Denotes 75 Ohm model, for coax connector models 75 Ohm BNC connectors are standard.

| MAXIMUM RATINGS       |                |
|-----------------------|----------------|
| Operating Temperature | -40°C to 85°C  |
| Storage Temperature   | -55°C to 100°C |

| PIN CONNECTIONS |      |
|-----------------|------|
| SUM PORT        | 1    |
| PORT 1          | 3    |
| PORT 2          | 4    |
| GND EXT         | 6    |
| NOT USED        | 2, 5 |

#### Functional Diagram

