

# Engineering Development Model

## Power Splitter/Combiner

## ZFSC-ED6849/1

### 12 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 : R67

| ELECTRICAL SPECIFICATIONS 75Ω @ +25°C |               |      |       |            |
|---------------------------------------|---------------|------|-------|------------|
| Parameter                             |               | Min. | Typ.  | Max. Units |
| Frequency                             |               | 1    |       | 550 MHz    |
| Isolation                             | 1 - 10 MHz    |      | 34    | dB         |
|                                       | 10 - 275 MHz  |      | 31    | dB         |
|                                       | 275 - 550 MHz |      | 26    | dB         |
| Insertion Loss Above 10.8 dB          | 1 - 10 MHz    |      | 6.57  | dB         |
|                                       | 10 - 275 MHz  |      | 6.71  | dB         |
|                                       | 275 - 550 MHz |      | 7.11  | dB         |
| Phase Unbalance                       | 1 - 10 MHz    |      | 0.536 | deg.       |
|                                       | 10 - 275 MHz  |      | 0.774 | deg.       |
|                                       | 275 - 550 MHz |      | 1.204 | deg.       |
| Amplitude Unbalance                   | 1 - 10 MHz    |      | 0.123 | dB         |
|                                       | 10 - 275 MHz  |      | 0.073 | dB         |
|                                       | 275 - 550 MHz |      | 0.198 | dB         |
| VSWR                                  | SUM Port      |      | 1.16  | (:1)       |
|                                       | OUT Ports     |      | 1.19  | (:1)       |

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

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

| PIN CONNECTIONS |    |
|-----------------|----|
| SUM PORT        | S  |
| PORT 1          | 1  |
| PORT 2          | 2  |
| PORT 3          | 3  |
| PORT 4          | 4  |
| PORT 5          | 5  |
| PORT 6          | 6  |
| PORT 7          | 7  |
| PORT 8          | 8  |
| PORT 9          | 9  |
| PORT 10         | 10 |
| PORT 11         | 11 |
| PORT 12         | 12 |

#### Functional Diagram

