

## YSDC50-2-8-40-S

Directional Coupler, 50 W, 2-8 GHz, 40 dB coupling, SMA

### Key Features

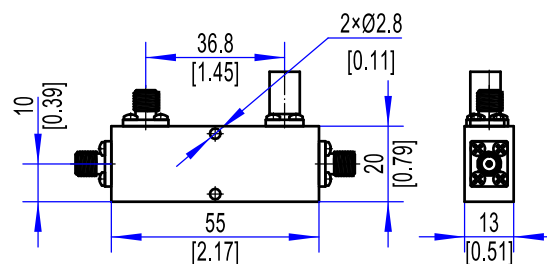
- Broadband 2–8 GHz Coverage
- Stable 40 dB Coupling with Low Flatness
- Low Insertion Loss & High Directivity
- High Power Handling up to 50 W
- Rugged Design with SMA Interface

### Applications

- RF & Microwave Test Systems
- Signal Monitoring & Power Sampling
- Communication Systems (L/S Band)
- Radar Subsystems & Integration
- Lab & Production Testing

| Electrical Specifications    |                         |                                   |
|------------------------------|-------------------------|-----------------------------------|
| 1                            | Frequency Range         | 2-8 GHz                           |
| 2                            | Coupling                | 40 ±1 dB                          |
| 3                            | Coupling Flatness       | ≤ ±0.6 dB                         |
| 4                            | Main Line VSWR          | ≤1.4:1                            |
| 5                            | Main Line VSWR          | ≤1.6:1                            |
| 6                            | Insertion Loss          | ≤0.3 dB                           |
| 7                            | Directivity             | ≥12 dB                            |
| 8                            | Power                   | 50 W                              |
| Environmental Specifications |                         |                                   |
| 1                            | Operating Temperature   | -55°C to +85°C                    |
| Mechanical Specifications    |                         |                                   |
| 1                            | Connectors              | SMA Female                        |
| 2                            | Surface Finishing       | Natural Conductive Oxidation      |
| 3                            | Dimensions <sup>1</sup> | 55×20×13 mm / [2.17×0.79×0.51 in] |

### Outline Drawing (Units: mm/[inch], Tolerance: ±0.3 mm)



Note 1: Excluding Connector size