

# YS90H50-7-12R75-15-S

90° Hybrid Coupler, 50 W, 7-12.75 GHz, 15 dB Isolation, SMA

## Key Features

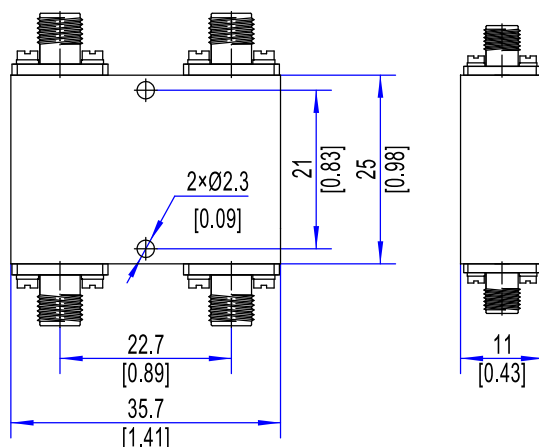
- Equal power split
- Quadrature (90°) output
- High port isolation
- Low insertion loss
- Excellent amplitude & phase balance

## Applications

- IQ modulation & demodulation
- Balanced amplifiers
- Balanced mixers
- Phased array systems
- Test & measurement systems

| Electrical Specifications    |                         |                                     |
|------------------------------|-------------------------|-------------------------------------|
| 1                            | Frequency Range         | 7-12.75 GHz                         |
| 2                            | Insertion Loss          | ≤0.8 dB                             |
| 3                            | VSWR                    | ≤1.50:1                             |
| 4                            | Isolation               | ≥15 dB                              |
| 5                            | Amplitude Balance       | ≤±0.5 dB                            |
| 6                            | Phase Balance           | ≤±5°                                |
| 7                            | Power Handling          | 50 W(CW)                            |
| Environmental Specifications |                         |                                     |
| 1                            | Operating Temperature   | -55°C to +85°C                      |
| Mechanical Specifications    |                         |                                     |
| 1                            | Connectors              | SMA Female                          |
| 2                            | Surface Finishing       | Gray-white painted housing          |
| 3                            | Dimensions <sup>1</sup> | 35.7×25×11 mm / [1.41×0.98×0.43 in] |

## Outline Drawing (Units: mm/[inch], Tolerance: ±0.2 mm)



Note 1: Excluding Connector size