

OPEN • SHORT • LOAD

Calibration Standard

2.92mm Male

HAOSL-29P-43

DC to 43.5 GHz • 50 Ω

The HASCO RF 2.92mm Male Open-Short-Load Calibration Standard provides accurate and repeatable calibration for Vector Network Analyzers (VNA) up to 43.5 GHz. The integrated OSL design combines Open, Short, and Precision Load standards in a rugged, compact assembly ideal for laboratory, production, and field applications.

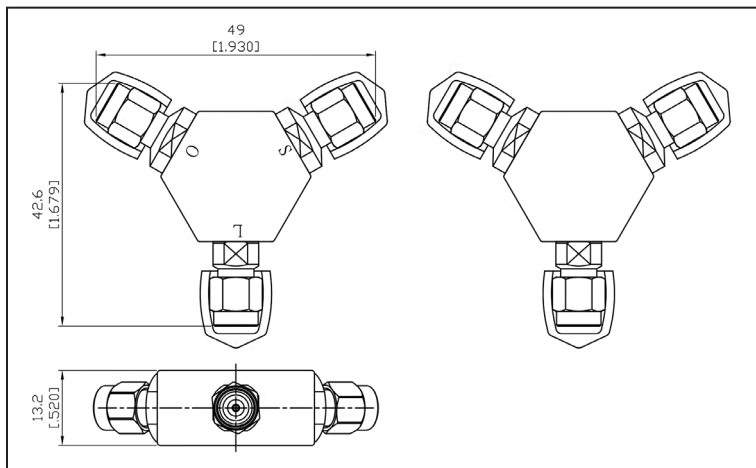
Features

- Integrated Open, Short, Load
- Compact one-piece design
- High return loss performance
- Low phase error
- Rugged Aluminum construction
- Laser engraved port identification
- Includes calibration data

Applications

- VNA Calibration
- RF & Microwave Test Systems
- Production Test / ATE
- Aerospace & Defense
- SATCOM
- Research & Development

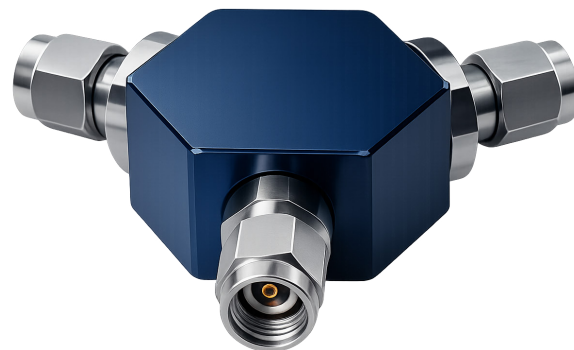
Outline Drawing



Calibration & Care

Each calibration standard or calibration kit is supplied with its own fully characterized calibration coefficient datasheet.

- Recommended calibration temperature: 20°C to 25°C
- Keep connector interfaces clean and protected
- Install protective caps when not in use
- Use calibrated torque wrench during mating
- Calibration data provided with each unit



Electrical

- | | |
|----------------------------|--|
| • Impedance | 50 Ω |
| • DC Resistance | 50 $\pm$ 0.25 Ω |
| • Max Power | 0.25 Watts |
| • Frequency Range | DC - 43.5 GHz |
| • Phase Error (Open/Short) | $\leq$ 1° (DC - 6 GHz)
$\leq$ 3° (6 - 26.5 GHz)
$\leq$ 5° (26.5 - 40 GHz)
$\leq$ 6° (40 - 43.5 GHz) |
| • Return Loss (Open/Short) | $\leq$ 0.10 dB (DC - 18 GHz)
$\leq$ 0.25 dB (18 - 43.5 GHz) |
| • Return Loss (Load) | $\geq$ 42 dB (DC - 6 GHz)
$\geq$ 30 dB (6 - 43.5 GHz) |
| • Capacitance (Open) | 4.5 (1E-15) F
-20.0 (1E-36) F/Hz ² |
| • Inductance (Short) | 4.0 (1E-12) H
39.0 (1E-33) H/Hz ² |

Mechanical

- | | |
|----------------------------|----------|
| • Open/Short Offset Length | 16.70 ps |
|----------------------------|----------|

Environmental

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|---------------------|---|
| • Temperature Range | -20°C to 75°C (storage) |
| • Temperature Range | 20°C to 25°C (optimal) |
| • RoHS | Compliant  |

Material

- | | |
|--------------|----------------------------|
| • Housing | Anodized Aluminum |
| • Body & Nut | Passivated Stainless Steel |
| • Dielectric | PPO |
| • Contact | Gold Plated BeCu |
| • Cap | PVC |