

OPEN • SHORT • LOAD • THROUGH

Calibration Standard

3.5mm Female

HAOSLT-35J-26.5G

DC to 26.5 GHz • 50 Ω

The HASCO RF 3.5mm Female Open-Short-Load-Through Calibration Standard provides accurate and repeatable calibration for Vector Network Analyzers (VNA) up to 26.5 GHz. The integrated OSLT design combines Open, Short, and Precision Load standards in a rugged, compact assembly ideal for laboratory, production, and field applications.

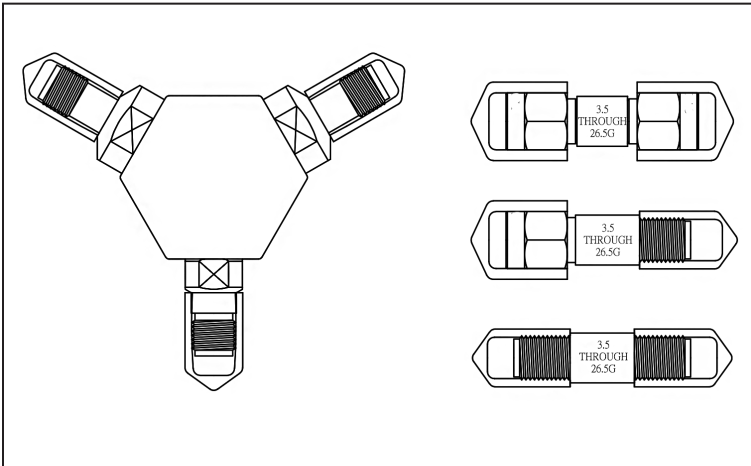
Features

- Open, Short, Load, Through
- 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

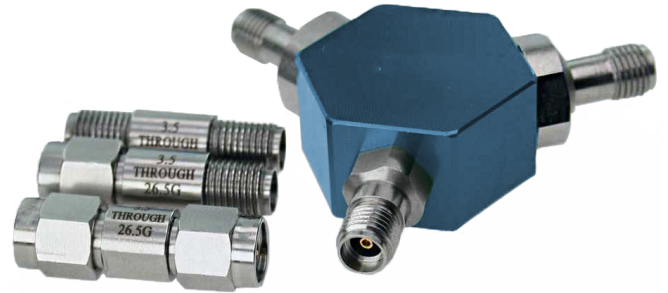
Outline Drawing



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 $\pm$ 0.50 Ω |
| • Max Power | 0.25 Watts |
| • Frequency Range | DC - 26.5 GHz |
| • Insertion Loss (Through) | $\leq$ 0.2 dB |
| • Phase Error (Open) | $\leq$ 0.65° (DC - 3 GHz)
$\leq$ 1.2° (3 - 8 GHz)
$\leq$ 2.0° (8 - 26.5 GHz) |
| • Phase Error (Short) | $\leq$ 0.5° (DC - 3 GHz)
$\leq$ 1.0° (3 - 8 GHz)
$\leq$ 1.75° (8 - 26.5 GHz) |
| • Return Loss (Open/Short) | $\leq$ 0.10 dB (DC - 8 GHz)
$\leq$ 0.15 dB (8 - 20 GHz)
$\leq$ 0.20 dB (20 - 26.5 GHz) |
| • Return Loss (Load) | $\geq$ 36 dB (DC - 2 GHz)
$\geq$ 34 dB (20 - 26.5 GHz) |
| • Return Loss (Through) | $\geq$ 30 dB (DC - 8 GHz)
$\geq$ 26 dB (18 - 26.5 GHz) |
| • Capacitance (Open) | 49.43 (1E-15) F
-310.13 (1E-27) F/Hz |

Mechanical

- | | |
|----------------------------|-----------------------------------|
| • Open/Short Offset Length | 29.24 ps (Open), 31.78 ps (Short) |
|----------------------------|-----------------------------------|

Environmental

- | | |
|---------------------|---|
| • 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 | PEI (Open), PPO (Load/Through) |
| • Contact | Gold Plated BeCu |
| • Cap | PVC |