

OPEN • SHORT • LOAD • THROUGH

Calibration Standard

2.4mm Female

HAOSLT-24J-50

DC to 50 GHz • 50 Ω

The HASCO RF 2.4mm Female Open-Short-Load-Through Calibration Standard provides accurate and repeatable calibration for Vector Network Analyzers (VNA) up to 50 GHz. The integrated OSLT design combines Open, Short, and Precision Load standards in a rugged, compact assembly ideal for laboratory, production, and field applications.

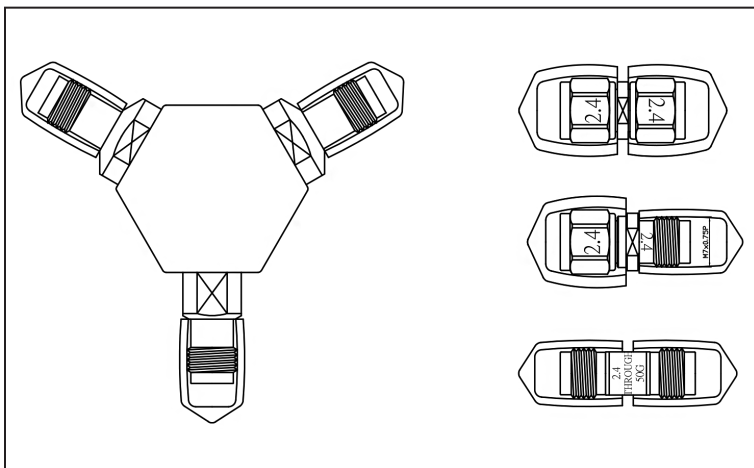
Features

- 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

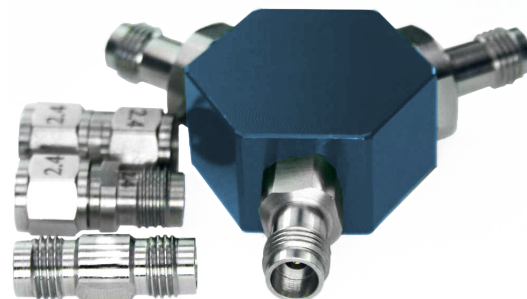
Outline Drawing



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 - 50 GHz
- Insertion Loss (Through) $\leq$ 0.3 dB
- Phase Error (Open/Short) $\leq$ 2° (DC - 10 GHz)
 $\leq$ 3° (10 - 26.5 GHz)
 $\leq$ 4° (26.5 - 50 GHz)
- Return Loss (Open/Short) $\geq$ 0.1 dB (DC - 10 GHz)
 $\geq$ 0.2 dB (10 - 26.5 GHz)
 $\geq$ 0.3 dB (26.5 - 50 GHz)
- Return Loss (Load) $\geq$ 38 dB (DC - 4 GHz)
 $\geq$ 30 dB (4 - 20 GHz)
 $\geq$ 26 dB (20 - 26.5 GHz)
 $\geq$ 23 dB (26.5 - 50 GHz)
- Return Loss (Through) $\geq$ 30 dB (DC - 4 GHz)
 $\geq$ 26 dB (4 - 26.5 GHz)
 $\geq$ 23 dB (26.5 - 50 GHz)
- Capacitance (Open) 29.722 (1E-15) F
-3.539 (1E-36) F/Hz²

Mechanical

- Open/Short Offset Length 20.83 ps (Open), 22.54 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 PS (Open), PPO (Load/Through)
- Contact Gold Plated BeCu
- Cap PVC