

OPEN • SHORT • LOAD • THROUGH

Calibration Standard

SMA Male

HAOSLT-SMAP-18

DC to 18 GHz • 50 Ω

The HASCO RF SMA Male Open-Short-Load-Through Calibration Standard provides accurate and repeatable calibration for Vector Network Analyzers (VNA) up to 18 GHz. The integrated OSLT design combines Open, Short, and Precision Load standards in a rugged, compact assembly ideal for laboratory, production, and field applications.

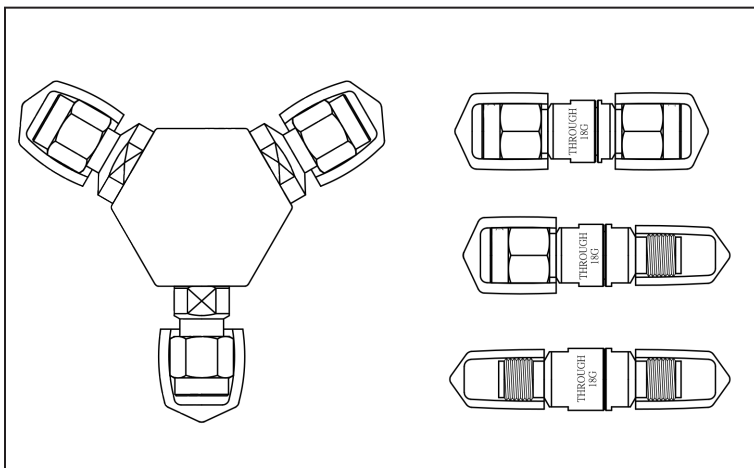
Features

- 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

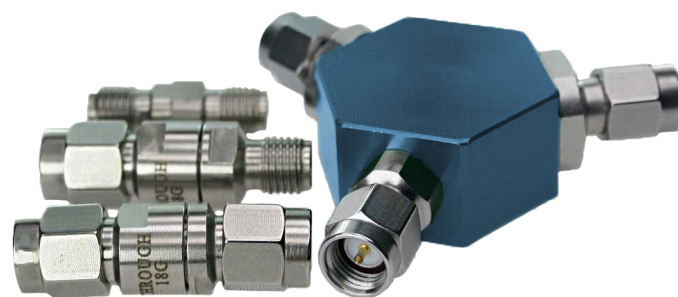
Outline Drawing



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 $\pm$ 0.50 Ω |
| • Max Power | 0.25 Watts |
| • Frequency Range | DC - 18 GHz |
| • Insertion Loss (Through) | $\leq$ 0.15 dB |
| • Phase Error (Open/Short) | $\leq$ 1° (DC - 6 GHz)
$\leq$ 3° (6 - 18 GHz) |
| • Return Loss (Open/Short) | $\leq$ 0.10 dB (DC - 6 GHz)
$\leq$ 0.20 dB (6 - 18 GHz) |
| • Return Loss (Load) | $\geq$ 42 dB (DC - 6 GHz)
$\geq$ 30 dB (6 - 18 GHz) |
| • Return Loss (Through) | $\geq$ 32 dB (DC - 6 GHz)
$\geq$ 28 dB (6 - 18 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

- | | |
|---------------------|---|
| • 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 | PTFE |
| • Contact | Gold Plated BeCu |
| • Cap | PVC |