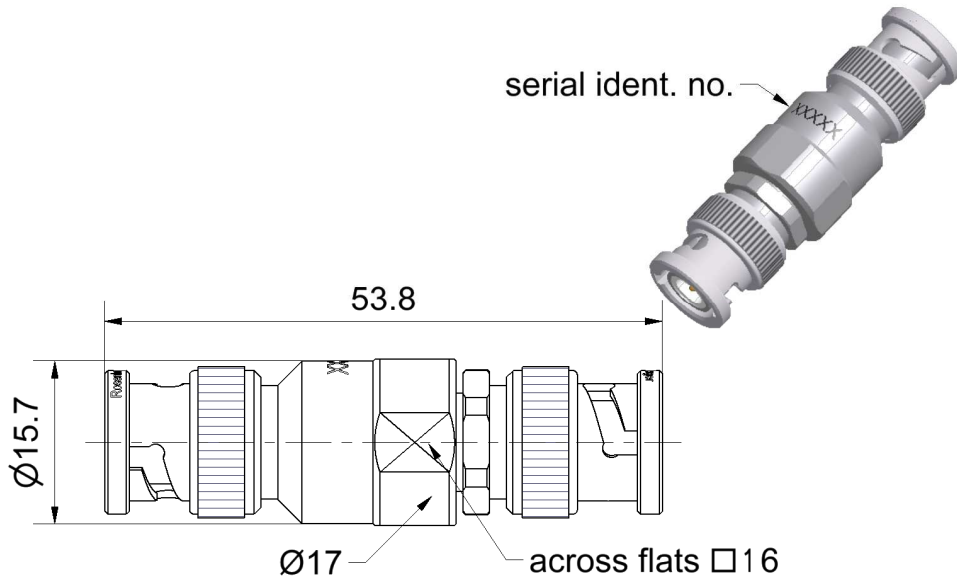


BNC
50 Ω

Calibration Adaptor
Plug/Plug

51S121-S20S3



All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

IEC 60169-8, MIL-PRF-39012, CECC 22120

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center conductor
Outer conductor
Dielectric

Material

CuBe
Stainless steel
PTFE, PPE

Plating

Gold, min. 1.27 µm, over nickel
Passivated

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RF_35/05.10/6.0

BNC
50 Ω

Calibration Adaptor
Plug/Plug

51S121-S20S3

Electrical data

| | |
|-----------------|---|
| Frequency range | DC to 4 GHz |
| Return loss | ≥ 34 dB, DC to 2 GHz ≥ 30 dB, 2 GHz to 4 GHz |

Mechanical data

| | |
|---------------|--------------------|
| Mating cycles | ≥ 500 |
| Gauge | 5.31 mm to 5.38 mm |

General standard definition

For proper operation the vector network analyzer (VNA) needs a model describing the electrical behaviour of this calibration standard. The different models, units, and terms used will depend on the VNA type and they will have to be entered into the VNA. All values are based on typical geometry and plating.

| | |
|-------------------------------------|----------------|
| Offset Z_0 / Impedance / Z_0 | 50 Ω |
| Offset Delay | 202.840 ps |
| Length (electrical) / Offset Length | 60.81 mm |
| Offset Loss | 2.50 GΩ/s |
| Loss | 0.0440 dB/√GHz |

Environmental data

| | |
|---|------------------|
| Operating temperature range ¹ | +20 °C to +26 °C |
| Rated temperature range of use ² | 0 °C to +50 °C |
| Storage temperature range | -40 °C to +85 °C |

RoHS compliant

¹ Temperature range over which these specifications are valid.

² This range is underneath and above the operating temperature range, within the open circuit is fully functional and could be used without damage.