

SPECIFICATIONS

N - CALIBRATION KIT

MODEL 53CK10A-150

Device: Combi Open-Short-Load (male)

Order No.: 53 S 36R-MSO

Serial No.:

A: Open

Mechanical Specifications:

1. Gauge: 5,33mm ... 5.84mm

2. Offset Length: 20.3mm ± 0.05mm

Electrical Specifications

1. Reflection Coefficient:

$|S_{11}| \geq -0.15\text{dB}$ to 6GHz

2. Fringing Capacitance:

$C_0 = 2.68551 \text{ e-15 F}$

$C_1 = 46.1588 \text{ e-27 F/Hz}$

$C_2 = 668.508 \text{ e-36 F/Hz}^2$

$C_3 = -113.007 \text{ e-45 F/Hz}^3$

3. Resulting Phase Uncertainty:

$|\arg(S_{11})| \leq 3.0^\circ$ to 6GHz

B: Short

Mechanical Specifications:

1. Gauge: 5,33mm ... 5.84mm

2. Offset Length: 20.3mm ± 0.05mm

Electrical Specifications

1. Reflection Coefficient:

$|S_{11}| \geq -0.15\text{dB}$ to 6GHz

2. Nominal Phase at Short Plane:

$\varphi = 180^\circ$

3. Resulting Phase Uncertainty:

$|\arg(S_{11})| \leq 3.0^\circ$ to 6GHz

C: Load

Mechanical Specification:

1. Gauge: 5,33mm ... 5.84mm

Electrical Specifications

1. Reflection Coefficient:

$|S_{11}| \leq -42\text{dB}$ to 2.5GHz

$|S_{11}| \leq -38\text{dB}$ 2.5GHz to 6GHz

2. DC-Resistance:

$R = 50\Omega \pm 0.5\Omega$

3. Power Handling:

$P_{\max} = 1.0\text{W}$ (0°C to 50°C)