

Matched load; precision, 0.8 mm plug | BN 530839



Radio frequency characteristics

Interface type	0.8 mm plug metrology grade per IEEE Std 287
Frequency range	DC to 150 GHz
Characteristic impedance	50 Ω
DC resistance	50 $\Omega \pm 0.5 \Omega$
Average power rating	50 mW
Return loss, min.	31 dB @ DC to 10 GHz 25 dB @ 10 to 26.5 GHz 22 dB @ 26.5 to 70 GHz 17 (20 tbc) dB @ 70 to 150 GHz
Repeatability, min.	45 dB

Mechanical characteristics

Inner conductor material / surface coating	CuBe age hardened / gold-plated
Outer conductor material / surface coating	CuBe / gold-plated copper alloy / gold-plated
Other parts material / surface coating	copper alloy / gold-plated CuBe / CuSnZn-plated
Weight, approx.	5 g
Marking	laser engraving

Environmental conditions

Operation	
Ambient temperature range	+18 to +28°C
Relative humidity, max.	95% (non-condensing)
Storage	
Ambient temperature range	-40 to +70°C
Relative humidity, max.	95% (non-condensing)



Matched load; precision, 0.8 mm plug | BN 530839

Scope of delivery and accessories

Scope of delivery	protective tube (38704A), certificate of calibration, handling instructions
-------------------	---

Applicable documents

Handling instructions	M36081
-----------------------	--------

Calibration data

Calibration data in formats for the common VNAs are included. It includes individual calibration coefficients to achieve the best possible performance.

The specifications for opens and shorts are given as allowed deviation from the nominal model.

