

Tube Wave Coupler

TWC 4013



- ISO 11452-4
- GB/T 33014.4

Features

- > Wide frequency range from 400 MHz to 3 GHz with stable performance
- > Low insertion loss reduces the required RF amplifier power to meet standard test levels
- > Open-close structure for easy and fast operation

Introduction

The TWC 4013 Tube Wave Coupler complies with the TWC method specified in ISO 11452-4. Based on the directional coupler principle, it couples the TEM wave in the tubular waveguide into the test cable. It features a high coupling frequency and low insertion loss.

Application Areas



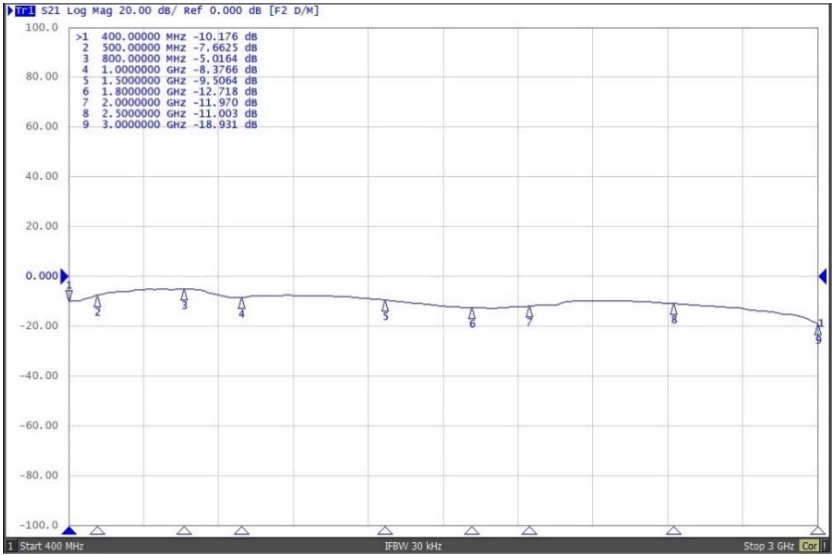
Technical Parameters

Frequency	400 MHz ~ 3 GHz
Insertion Loss*	≤20 dB
Inner Diameter (Max. Cable Diameter)	13 mm
Length	40 mm
Interface Type	Type SMA
Operating Temperature	0°C ~ 65°C
Weight	Approx. 2 kg
* According to ISO 11452-4, the calibration fixture shall be normalized before measuring coupler insertion loss with a vector network analyzer. The value is corrected for the fixture's insertion loss.	

Optional Accessories

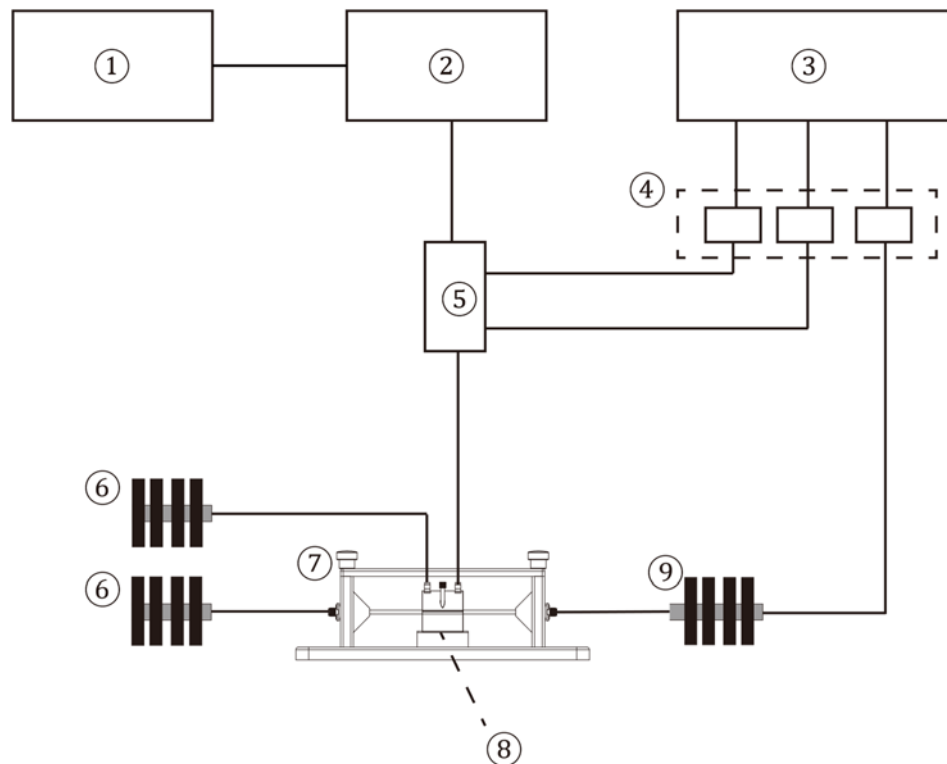
1	Tube Wave Coupler Calibration Fixture	Model: TWC 55 Frequency: 400 MHz ~ 3 GHz VSWR: ≤18	
2	Coaxial Attenuator	Mode: AT150-6dB-6G-NM-NF-B Attenuation: 6 dB Power: 150 W	

IL Test Curve



Note: This curve has been corrected for the fixture's insertion loss.

TWC System Setup



- ① RF Signal Generator
- ② Power Amplifier
- ③ Power Meter
- ④ Power Probe
- ⑤ Directional Coupler
- ⑥ Coaxial Load TF80
- ⑦ Tube Wave Coupler Calibration Fixture TWCF 55
- ⑧ Tube Wave Coupler TWC 4013
- ⑨ Attenuator at 150-6db-6G-NM-NF-B

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