

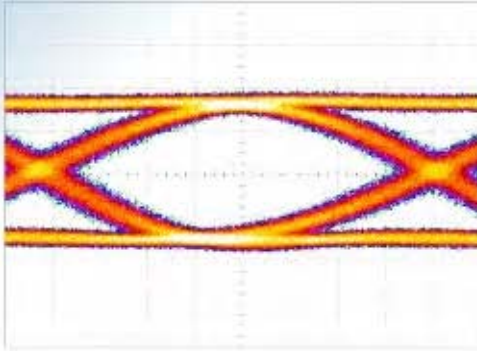


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SHF CA-50

50 GHz Cable Assembly





Description

The SHF CA-50 is a precision RF-Cable Assembly which is specified up to 50 GHz. The cable length is 5 cm. It is equipped with a 2.4mm (V-compatible) male connector and a Mini SMP (GPPO-compatible) female connector

Features

- Low loss
- Easily formable by hand

Applications

- Patch cable for modules with GPPO connectors
- Use as adaptor V-GPPO

Options

- MP (Matched Pair): A set of two cable assembly matched in delay time
- Other cable lengths on request
- Preformed cables on request



Specifications

Parameter	Unit	Min.	Typ.	Max.	Conditions
Mechanical Specifications					
Cable length	mm	48		52	cable length between the reference planes of the connectors
Cable type					low density semi-rigid
Outer diameter	mm		1.19		
Outer conductor construction					copper/tin
Dielectric constant			1.5		
Minimum bend radius	mm		3.2		inside, static
Connectors					
Connector 1					2,4mm male (V compatible)
Connector durability	cycles	500			
Connector 2					mini SMP (GPPO compatible)
Connector durability	cycles	100			
Electrical Specification					
Impedance	Ohm	48	50	52	@ 25 °C and sea level
Bandwidth	GHz	50			
VSWR				1.2 1.4 1.9	<9 GHz >9 GHz...<30 GHz >30 GHz...<45 GHz
Insertion loss	dB			0.8 1.5	<30 GHz >30 GHz...<45 GHz
Electrical delay	ps		230		
Option					
Matched Pair: Delta delay for the cable pair	ps			2	smaller values on request

All parameters measured at 25°C



S-Parameters

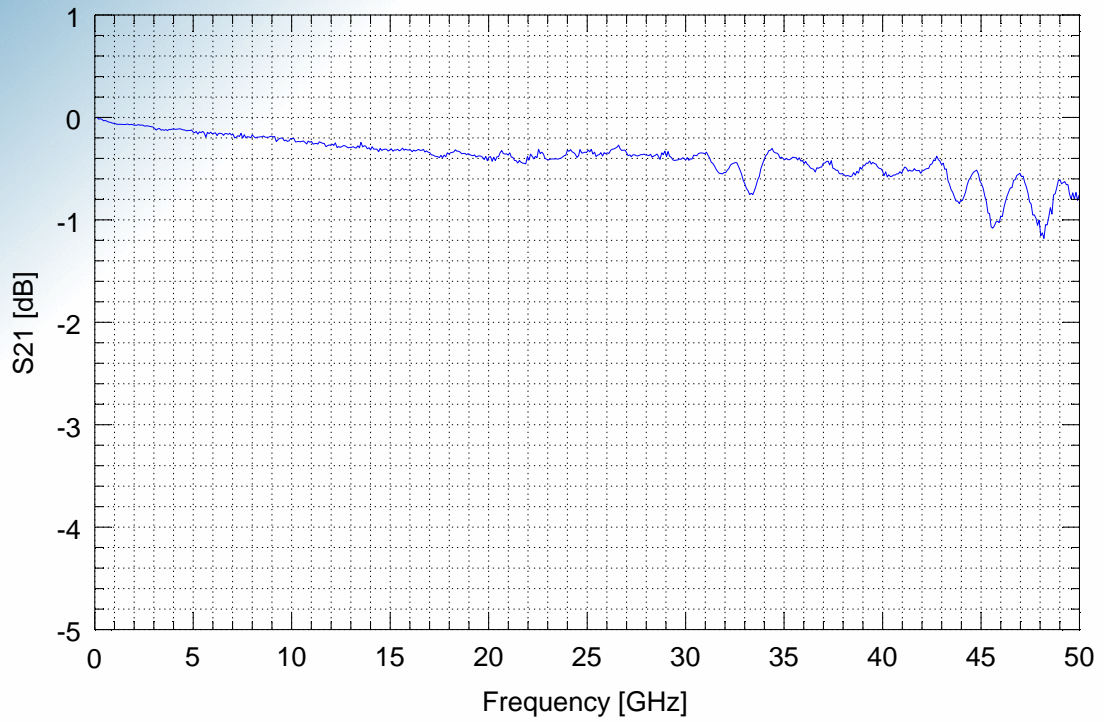


Fig. 1: S₂₁

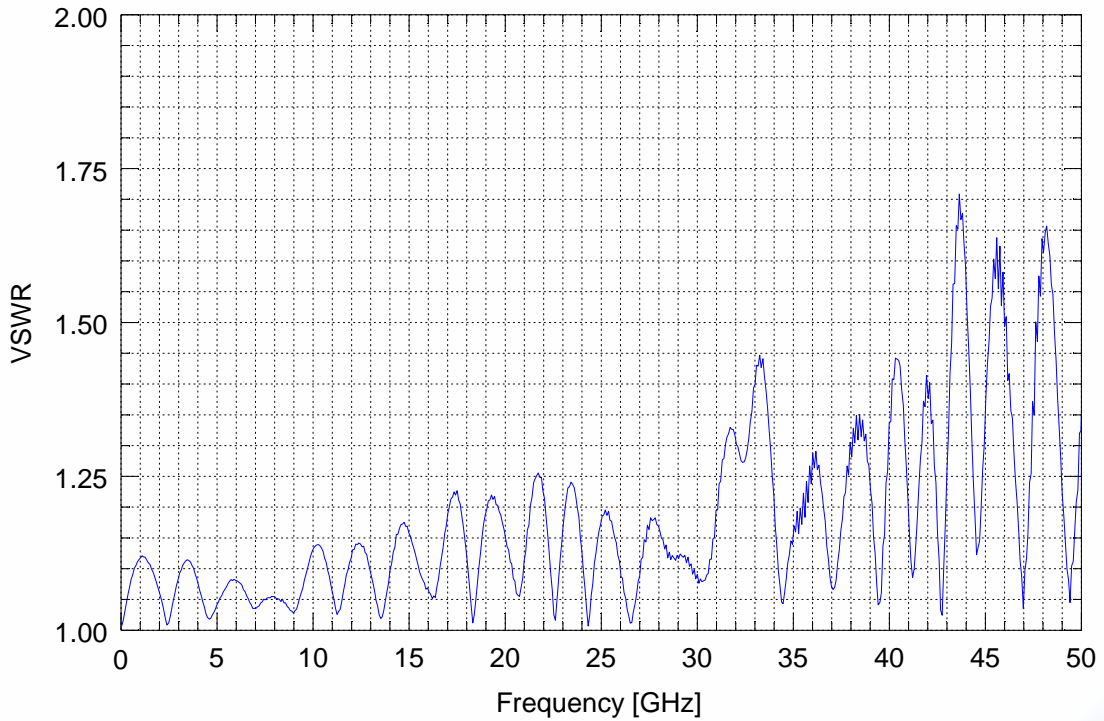


Fig. 2: VSWR

The measurement was performed using a VNA Type Anritsu 37397C