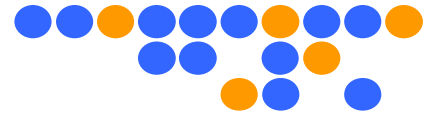


DIN-type Calibration Kit (DC ~ 4 GHz)



■ Specification

Model		GCSD-4G-MS
Connector Type		DIN-type (Male)
Frequency Range		DC ~ 4 GHz
LOAD		< -40 dB (Return Loss)
OPEN, SHORT	Magnitude	0.15 dB
	Phase Deviation	> $\pm 1^\circ$
Applicable Instruments		Agilent, Anritsu, Advantest VNA Series
Main Material		Stainless Steel



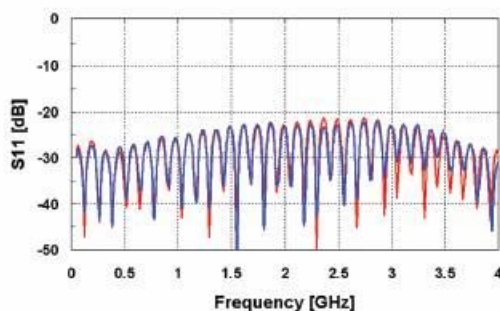
VNA Calibration Standards

■ Electrical Specification

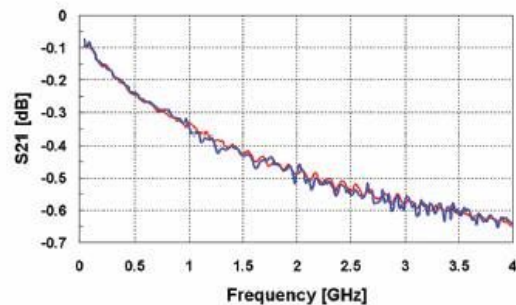
Device	Parameter	Specification	Frequency (GHz)
Open	Return loss	≤ 0.15 dB	DC to ≤ 4 GHz
	Phase uncertainty	$\leq 0.5^\circ$	DC to ≤ 2 GHz
	Phase uncertainty	$\leq 1.0^\circ$	> 2 to ≤ 6 GHz
	Cal coefficient	$C0 = -7.05 \times 10^{-15}$ F	DC to ≤ 4 GHz
	(Nominal model)	$C1 = -2592.90 \times 10^{-27}$ F/Hz $C2 = 6603.80 \times 10^{-36}$ F/Hz ² $C3 = -1299.60 \times 10^{-45}$ F/Hz ³	
Short	Return loss	≤ 0.15 dB	DC to ≤ 4 GHz
	Phase uncertainty	$\leq 0.5^\circ$	DC to ≤ 2 GHz
	Phase uncertainty	$\leq 1.0^\circ$	> 2 to ≤ 4 GHz
	Cal coefficient	$L0=0 \times 10^{-12}$ H	DC to ≤ 4 GHz
	(Nominal model)	$L1=0 \times 10^{-24}$ H/Hz $L2=0 \times 10^{-33}$ H/Hz ² $L3=0 \times 10^{-42}$ H/Hz ³	
Load	Return loss	≥ 40 dB	DC to ≤ 4 GHz
	Power handling	≤ 1 W	DC to ≤ 4 GHz

Test Data Comparison

- Test Equipment : Agilent 8510C VNA
- Frequency Range : 45MHz ~ 4GHz
- Calibration Method : 2-port SOLT Calibration
- Test Item : S11, S21
- Test Device : LL180 Cable Assembly (1M)



Agilent 85038A : —



GigaLane GCSD-4G : —