

Rev:A00

## SMA-FF Cryogenic Adapter



### Technical requirements

Item	Specifications
<b>Model</b>	ADPG01811A008
<b>Impedance</b>	50Ω
<b>Frequency range</b>	DC-12GHz, 12GHz-18GHz
<b>Return loss</b>	≥20dB (300K&77K)
<b>Insert loss</b>	≤0.35dB (300K&77K)
<b>Insulation resistance</b>	≥5000MΩ
<b>Dielectrics voltage resistance</b>	≤1000Vrms
<b>Temperature</b>	10mK-300K
<b>Connector</b>	SMA-FF

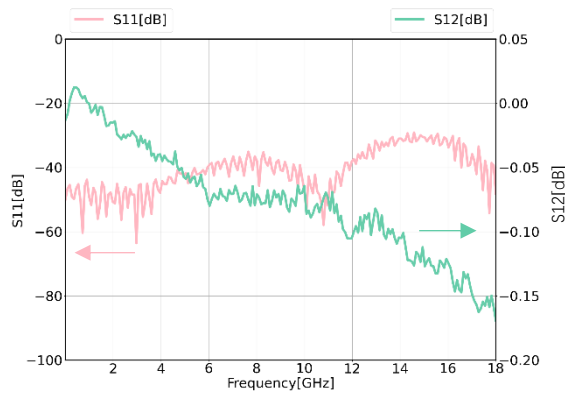
### Material and surface

	Item	Material	Surface
<b>SMA Connector</b>	<b>Outer conductor</b>	Beryllium bronze	Non-magnetic gold plated
	<b>Center conductor</b>	Beryllium bronze	Non-magnetic gold plated
	<b>Connector-dielectric</b>	PTFE	/

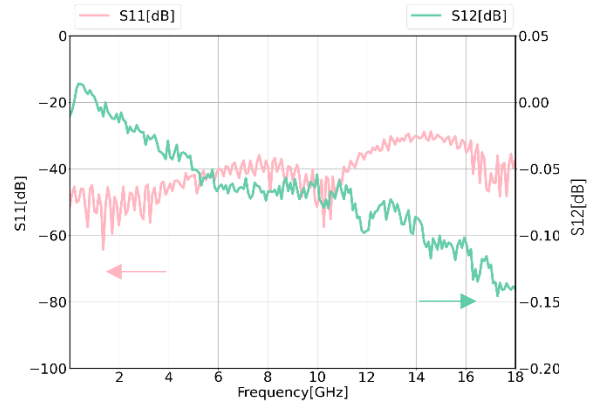
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## Test Results

Measure data,  $T_{amb}=300K$



Measure data,  $T_{amb}=77K$



## Outline drawing (Unmarked tolerance: $\pm 0.1mm$ )

