

Rev:A00

## SMA-MF Cryogenic Attenuator



The attenuator is an electronic component that provides attenuation and is widely used in electronic devices, primarily for adjusting the amplitude of signals in circuits.

### Technical requirements

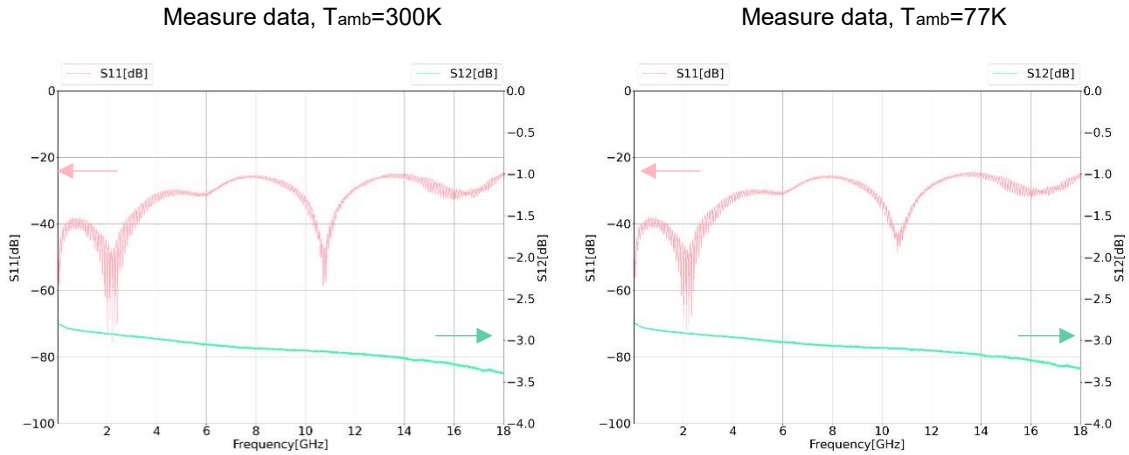
Item	Specifications
Model	See datasheet
Frequency range	DC-18GHz
Impedance	50Ω
Temperature	10mK-300k
Connector	SMA-MF

### Material and surface

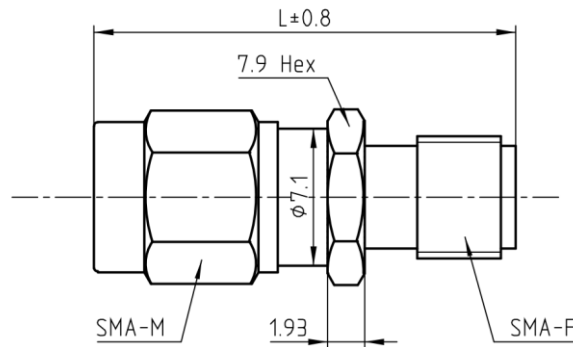
	Item	Material	Surface
SMA Connector	Outer conductor	Copper	Non-magnetic gold plated
	Center conductor	Beryllium bronze	Non-magnetic gold plated
	Connector-dielectric	PTFE	/

# SMA-MF Cryogenic Attenuator

## Test Results (ATTG01811A004)



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



## Datasheet

Model	Attenuation	Return loss	L(mm)
ATTG01811A003	0dB	$\geq 19dB@DC-12GHz(300K)$ $\geq 17dB@12-18GHz(300K)$	21.8
ATTG01811A042	1 dB	$\geq 18dB@DC-12GHz(77K)$ $\geq 16dB@12-18GHz(77K)$	
ATTG01811A004	3 dB	$\geq 20dB@DC-12GHz(300K)$ $\geq 17dB@12-18GHz(300K)$	
ATTG01811A005	6 dB	$\geq 19dB@DC-12GHz(77K)$ $\geq 17dB@12-18GHz(77K)$	
ATTG01811A006	10 dB	$\geq 19dB@DC-12GHz(77K)$ $\geq 17dB@12-18GHz(77K)$	25.1
ATTG01811A007	20 dB		