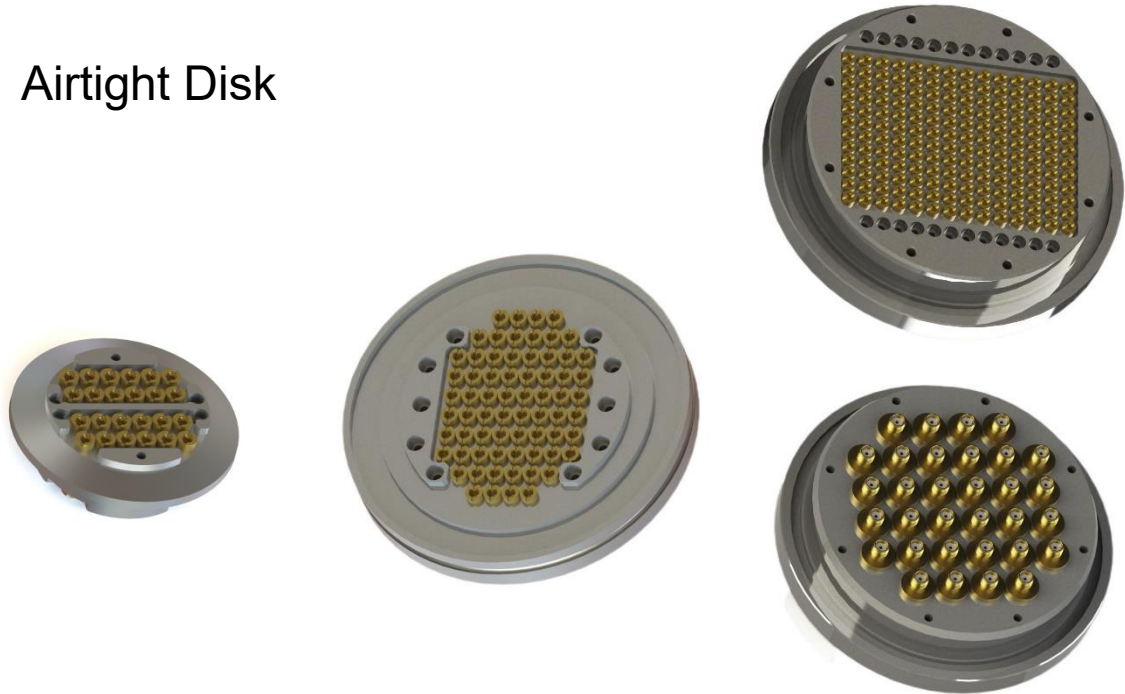


Rev:A00

Airtight Disk



The airtight disk is hermetically sealed to prevent leakage and ingress of outside air, it takes the lead with standard RF connectors to transmit signals from the outside to the inside.

Technical requirements

Item	Specifications
Model	See datasheet
Impedance	50Ω
Insulation resistance	≥5000MΩ
Temperature	300K
Connector	SSMP-M , SMA-F, 2.92-F
Hermetically sealed	Leak rate ≤1.0E ⁻⁷ mbar.L/s

Material and surface

Item	Material	Surface
Connector	Outer conductor	Beryllium bronze
	Center conductor	Beryllium bronze & Kovar
Connector	PTFE & Glass	/
Cavity	Kovar	Ni
	304 Stainless steel	Passivated finish

Airtight Disk



Datasheet

Model	PN	Return loss	Insertion loss
ADPG04044A123	XLD1000-ISO100-2.92-FF Airtight Disk	$\geq 20\text{dB@DC-26.5GHz(300K)}$	$\leq 0.35\text{dB}$
ADPG04044A125	KF63-2.92-FF Airtight Disk	$\geq 15\text{dB@26.5-40GHz(300K)}$	
ADPG04044A127	LD-KF40-2.92-FF Airtight Disk		
ADPG01811A104	SMA-FF Airtight Disk	$\geq 20\text{dB@DC-12GHz(300K)}$	$\leq 0.35\text{dB}$
ADPG01811A120	SMA-FF Airtight Disk	$\geq 17\text{dB@12-18GHz(300K)}$	
ADPG01822A084	SSMP-MM Airtight Disk	$\geq 20\text{dB@DC-12GHz(300K)}$ $\geq 13\text{dB@12-18GHz(300K)}$	$\leq 0.6\text{dB}$
ADPG01888A086	SMP3-MM Airtight Disk	$\geq 20\text{dB@DC-12GHz(300K)}$ $\geq 18\text{dB@12-18GHz(300K)}$	$\leq 0.5\text{dB}$

Arrangement of the number of channels of the Airtight Disk

Flange type	ISO100	CF63	KF40	
Number of channels	SMA	32	20	7
with different	SSMP	168	68	24
connectors	SMP3	400	100	/