DATA SHEET

COAXIAL ADAPTER, SMA, 50 Ohm, Bulkhead, jack / jack (female / female)

34_SMA-50-0-101/111_U

Properties

- Non-magnetic
- For cryogenic applications
- Excellent return loss
- Mechanical intermateable with PC 3.5 (3.5 mm standard) and SK (2.92 mm standard)
- Operating frequency up to 18 GHz

Product configuration		
Interface type	Gender	Standard
SMA	jack (female)	IEC 60169-15_MIL-STD-348A/310_CECC 22110
SMA	jack (female)	IEC 60169-15_MIL-STD-348A/310_CECC 22110

Interface and material data		
SMA		
Piece parts	**Material**	**Plating**
Centre contact	Copper Beryllium Alloy	Gold Plating
Outer conductor	Copper Beryllium Alloy	Gold Plating
Body	Copper Beryllium Alloy	Gold Plating
Insulator	PFA / PTFE	
Gasket	FKM (Fluoro elastomer, FPM)	
Fastening nut	Copper Beryllium Alloy	Gold Plating
Washer	Copper Beryllium Alloy	Gold Plating
SMA		
Piece parts	**Material**	**Plating**
Centre contact	Copper Beryllium Alloy	Gold Plating
Outer conductor	Copper Beryllium Alloy	Gold Plating
Body	Copper Beryllium Alloy	Gold Plating
Insulator	PFA / PTFE	
Gasket	FKM (Fluoro elastomer, FPM)	
Fastening nut	Copper Beryllium Alloy	Gold Plating
Washer	Copper Beryllium Alloy	Gold Plating

Electrical data	
Impedance	50 Ω
Interface frequency	18 GHz

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Electrical Data (frequency related)		
Frequency range	**Return loss**	**VSWR**
0 GHz ... 3 GHz	26.4 dB	1.1
3 GHz ... 10 GHz	20.8 dB	1.2
10 GHz ... 18 GHz	12.7 dB	1.6

Mechanical data	
Weight	8.73 g
Mating cycles	500

Environmental data	
Operation temperature	-20 °C ... 125 °C
Ingress protection (IP Rating)	IP68

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
85255346	RoHS 2011/65/EU and (EU) 2015/863	Compliant with exemption	6c
	REACH 1907/2006 Article 33 SVHC	Contains one or more SVHC >0,1%	CAS: 7439-92-1 Lead

Ordering Information Table	
Item number	Item description
85255346	34_SMA-50-0-101/111_UE

Additional Information	
Remarks	Hermetically sealed: leak rate <= 10^-7 Torr l/s (atm cc/s) O-ring mount bulkhead feedthrough design, leak rate dependent on environmental condition, typ. <= 10^-6 Torr l/s

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