

## SMBA (FAKRA) GENERAL DATASHEET

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### Applicable Standards

Interface according to

Standards: DIN 72594-1, USCAR-18

### Electrical characteristics

Characteristic impedance		50	$\Omega$	
Frequency range		DC to 6	GHz	
Return loss (typical)	DC - 6 GHz	$\geq 18$	dB	
RF-Leakage	DC - 1 GHz	$\geq -55$	dB	Interface
Insertion loss		$\leq 0,1$	dB	
Insulation resistance		$\geq 1$	G $\Omega$	
Center contact resistance		$\leq 5,0$	m $\Omega$	
Outer contact resistance		$\leq 2,5$	m $\Omega$	
Working current		$\leq 1$	A DC	
Test voltage		750	V rms	
Working voltage		335	V max.	
Intermodulation 3rd order	( 2x43dBm )	-	dBc	
Power handling	@1.0GHz		W	Data on request
	@ 4.0GHz		W	Data on request

### Mechanical characteristics

Durability (matings)		$\geq 50$	
Engagement force (with or without latch)		max. 25	N
Disengagement force (without latch)		min. 2 - max. 25	N
Retention force (with latch)		min. 100	N

### Materials

Outer contact	CuBe / CuZn / Diecast
Center contact	CuBe / CuZn
Crimp ferrule	Cu / CuZn
Other metal parts	CuZn / Stainless steel
Dielectric	PTFE / PE / SPS
Plastic housing	PA

### Standard plating

Outer contact	Ni / Au / white bronze
Centre contact	Au
Crimp ferrule	Ni / white bronze
Other metal parts	Ni / white bronze

### Environmental influences

Temperature range	IEC 68-2-2. -40°C up to 105°C
Temperatur change	IEC 68-2-14
Vibration	IEC 68-2-64
Humidity (cyclic)	IEC 68-8-30
Shock	IEC 68-2-29-35G

RoHS

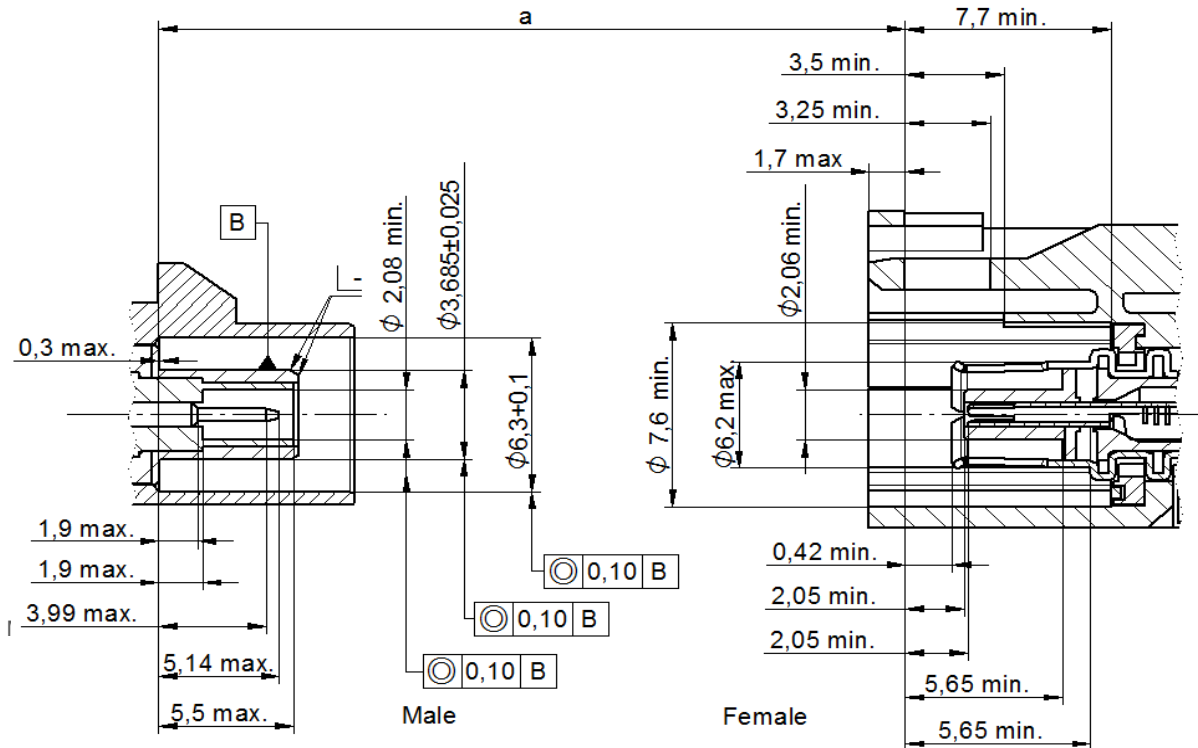
compliant

Date: 09.12.2019 U. Mayer

Revision:

Approved: 18.12.2019 P. Schuh

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Some connectors may have a specification that differs from the above mentioned data.

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Date	Alteration	Signature		
Date:	09.12.2019 U. Mayer		Revision:	
Approved:	18.12.2019 P. Schuh			