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SMBA (FAKRA) GENERAL DATASHEET

	Interface according to		Standards: DIN 7	72594-1,	USCAR-18
trical ch	aracteristics				
	Characteristic impedance		50	Ω	
	Frequency range		DC to 6	GHz	
	Return loss (typical)	DC - 6 GHz	≥ 18	dB	
	RF-Leakage	DC - 1 GHz	≥ - 55	dB	Interface
	Insertion loss		≤ 0,1	dB	
	Insulation resistance		≥ 1	GΩ	
	Center contact resistance		≤ 5,0	mΩ	
	Outer contact resistance		≤ 2,5	mΩ	
	Working current		≤ 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
chanical o	characteristics				
	Durability (matings)		≥ 50		
	Engagement force (with or witho	ut latch)	max. 25	Ν	
	Disengagement force (without la	tch)	min. 2 - max. 25	N	
	Disengagement force (without la Retention force (with latch)	tch)	min. 2 - max. 25 min. 100	N	
erials		tch)			
terials		tch)		N	
terials	Retention force (with latch) Outer contact Center contact	tch)	min. 100	N	
terials	Retention force (with latch) Outer contact Center contact Crimp ferrule	tch)	min. 100 CuBe / CuZn / Dio CuBe / CuZn Cu / CuZn	N	
terials	Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts	tch)	min. 100 CuBe / CuZn / Dio CuBe / CuZn Cu / CuZn CuZn / Stainless	N ecast steel	
terials	Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric	tch)	min. 100 CuBe / CuZn / Dio CuBe / CuZn Cu / CuZn	N ecast steel	
	Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric Plastic housing	tch)	min. 100 CuBe / CuZn / Dio CuBe / CuZn Cu / CuZn CuZn / Stainless	N ecast steel	
	Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric Plastic housing	tch)	min. 100 CuBe / CuZn / Did CuBe / CuZn Cu / CuZn CuZn / Stainless PTFE / PE / SPS PA	N ecast steel	
	Retention force (with latch) Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric Plastic housing ting Outer contact Outer contact	tch)	min. 100 CuBe / CuZn / Dia CuBe / CuZn Cu / CuZn CuZn / Stainless PTFE / PE / SPS PA Ni / Au / white bro	N ecast steel	
terials Indard pla	Retention force (with latch) Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric Plastic housing ting Outer contact Centre contact Centre contact	tch)	min. 100 CuBe / CuZn / Dia CuBe / CuZn CuZn / CuZn CuZn / Stainless PTFE / PE / SPS PA Ni / Au / white bro Au	N ecast steel	
	Retention force (with latch) Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric Plastic housing ting Outer contact Centre contact Centre contact Crimp ferrule	tch)	min. 100 CuBe / CuZn / Did CuBe / CuZn CuZn / CuZn CuZn / Stainless PTFE / PE / SPS PA Ni / Au / white broze	N ecast steel	
	Retention force (with latch) Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric Plastic housing ting Outer contact Centre contact Centre contact	tch)	min. 100 CuBe / CuZn / Dia CuBe / CuZn CuZn / CuZn CuZn / Stainless PTFE / PE / SPS PA Ni / Au / white bro Au	N ecast steel	
ndard pla	Retention force (with latch) Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric Plastic housing ting Outer contact Centre contact Centre contact Crimp ferrule	tch)	min. 100 CuBe / CuZn / Did CuBe / CuZn CuZn / CuZn CuZn / Stainless PTFE / PE / SPS PA Ni / Au / white broze	N ecast steel	
ndard pla	Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric Plastic housing ting Outer contact Centre contact Crimp ferrule Other metal parts	tch)	min. 100 CuBe / CuZn / Did CuBe / CuZn CuZn / CuZn CuZn / Stainless PTFE / PE / SPS PA Ni / Au / white broze	N ecast steel	05°C
ndard pla	Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric Plastic housing ting Outer contact Centre contact Cimp ferrule Other metal parts Dielectric Plastic housing ting Outer contact Centre contact Crimp ferrule Other metal parts	tch)	min. 100 CuBe / CuZn / Did CuBe / CuZn Cu / CuZn CuZn / Stainless PTFE / PE / SPS PA Ni / Au / white bronze Ni / white bronze	N ecast steel	05°C
ndard pla	Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric Plastic housing ting Outer contact Centre contact Crimp ferrule Other metal parts tal influences Temperature range	tch)	min. 100 CuBe / CuZn / Dia CuBe / CuZn CuZn / CuZn CuZn / Stainless PTFE / PE / SPS PA Ni / Au / white bronze Ni / white bronze Ni / white bronze	N ecast steel	05°C
ndard pla	Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric Plastic housing ting Outer contact Centre contact Crimp ferrule Other metal parts tal influences Temperature range Temperatur change	tch)	min. 100 CuBe / CuZn / Dia CuBe / CuZn / Dia CuZn / CuZn CuZn / Stainless PTFE / PE / SPS PA Ni / Au / white bronze Ni / white bronze Ni / white bronze IEC 68-2-240°C IEC 68-2-14	N ecast steel	05°C
ndard pla	Retention force (with latch)	tch)	min. 100 CuBe / CuZn / Did CuBe / CuZn / Did CuZn / CuZn CuZn / Stainless PTFE / PE / SPS PA Ni / Au / white bronze Ni / white bronze IEC 68-2-14 IEC 68-2-64	N ecast steel onze	05°C
ndard pla	Retention force (with latch) Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric Plastic housing ting Outer contact Centre contact Centre contact Crimp ferrule Other metal parts tal influences Temperature range Temperatur change Vibration Humidity (cyclic)	tch)	min. 100 CuBe / CuZn / Dia CuBe / CuZn / Dia CuZn / Stainless PTFE / PE / SPS PA Ni / Au / white bronze Ni / white bronze Ni / white bronze IEC 68-2-14 IEC 68-2-64 IEC 68-8-30	N ecast steel onze	05°C
ndard pla	Retention force (with latch) Retention force (with latch) Outer contact Center contact Crimp ferrule Other metal parts Dielectric Plastic housing ting Outer contact Centre contact Centre contact Crimp ferrule Other metal parts tal influences Temperature range Temperatur change Vibration Humidity (cyclic)	tch)	min. 100 CuBe / CuZn / Dia CuBe / CuZn / Dia CuZn / Stainless PTFE / PE / SPS PA Ni / Au / white bronze Ni / white bronze Ni / white bronze IEC 68-2-14 IEC 68-2-64 IEC 68-8-30	N ecast steel onze	05°C
ndard pla	Retention force (with latch)	tch)	min. 100 CuBe / CuZn / Dia CuBe / CuZn / Dia CuZn / Stainless PTFE / PE / SPS PA Ni / Au / white bronze Ni / white bronze Ni / white bronze IEC 68-2-14 IEC 68-2-64 IEC 68-8-30	N ecast steel onze	05°C

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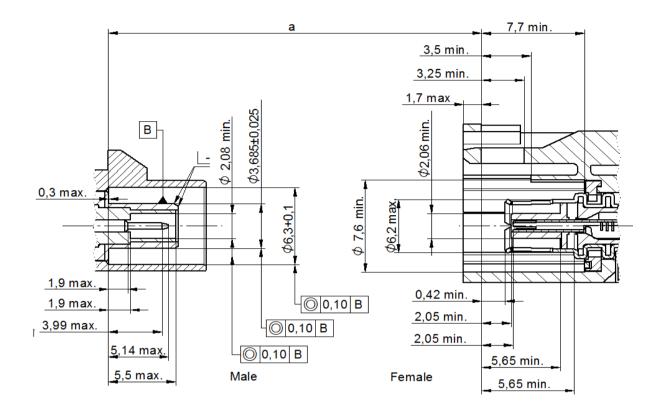


SMBA (FAKRA) GENERAL DATASHEET



CONNECTOR

SYSTEMS



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			