

SMC GENERAL DATASHEET

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Applicable Standards

Interface according to

Standards: IEC 61169-9, MIL-C-39012

Electrical characteristics

Characteristic impedance		50	Ω	
Frequency range		DC to 10	GHz	
Return loss (typical)	DC - 1 GHz	≥ 30	dB	straight, semi-rigid cable
	1 - 4 GHz	≥ 20	dB	straight, semi-rigid cable
	4 - 10 GHz	≥ 18	dB	straight, semi-rigid cable
RF-Leakage	DC - 1 GHz	≥ -90	dB	Interface
Insertion loss		$\leq -x \sqrt{f}$ [GHz]	dB	
Insulation resistance		≥ 1	G Ω	
Center contact resistance		$\leq 5,0$	m Ω	
Outer contact resistance		$\leq 2,5$	m Ω	
Working current		$\leq 1,5$	A DC	
Test voltage		1000	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)		≥ 500		
Coupling nut torque recommended		0,25 - 0,35	Nm	
Coupling nut torque max.		0,7	Nm	

Materials

Outer contact		CuBe / CuZn
Center contact		CuBe / CuZn
Crimp ferrule		Cu / CuZn
Other metal parts		CuZn
Dielectric		PTFE

Standard plating

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

Environmental influences

Temperature range		-55°C up to +125°C
Test categories		DIN 40045 / IEC 55/125/56
Relative humidity		MIL-STD-202, Method 106
Thermal shock		MIL-STD-202, Method 107, Cond. B
Shock		MIL-STD-202, Method 213, Cond. J
Vibration		MIL-STD-202, Method 204, Cond. B

RoHS

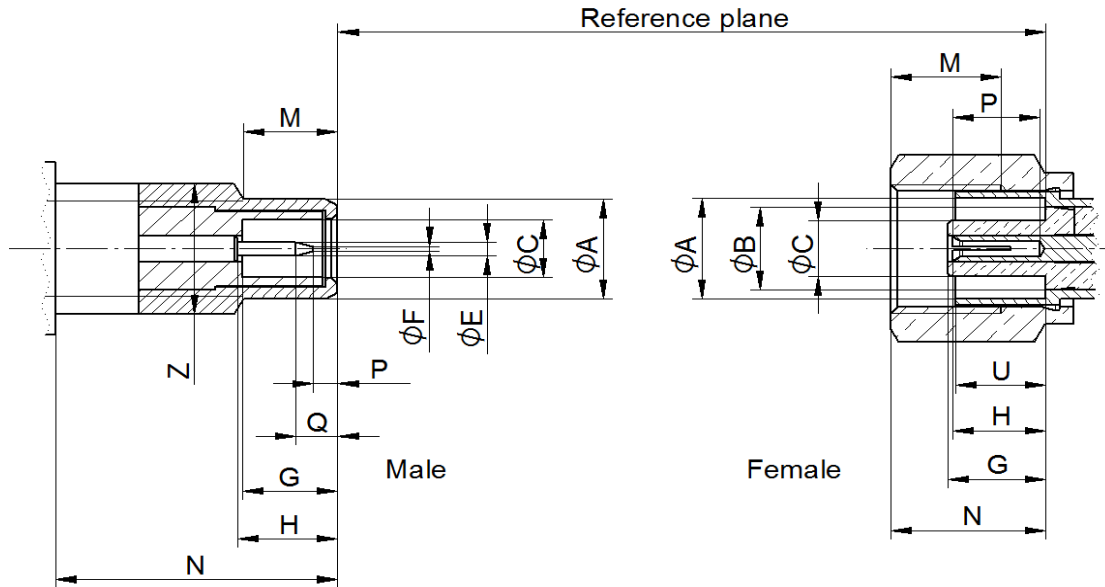
compliant

Date: 09.12.2019 U. Mayer

Revision:

Approved: 18.12.2019 P. Schuh

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	Male		Female	
	min.	max.	min.	max.
A		3,71	3,73	
B				3,07
C	2,08			2,06
E	0,48	0,53		
F		0,25		
G	3,4			3,4
H	3,4		2,85	3,4
M	3,12	3,38	2,79	
N	5,94			5,92
P	0,61		2,79	
Q		2,13		
U				3,1
Z	10-32 UNF-2A		10-32 UNF-2A	

Dimension in mm

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		

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