

Specification	QF3105	Rev.:2	Date: 2016-10-17
Filter type : Front End (Antenna) Crystal Filter			

Parameter	min.	typ.	max.	Unit	Condition
Frequency range	135		180	MHz	
Standard frequencies				kHz	
Pass bandwidth	±4			kHz	@ 3 dB
Pass band ripple			1	dB	@ fo ± 2 kHz
Insertion / transducer attenuation			8	dB	
Shape factor SF					... dB / ... dB
Selectivity					
			±15	kHz	@ 20 dB
			±35	kHz	@ 45 dB
Spurious response attenuation	25			dB	
Ultimate attenuation	60			dB	
Termination					
Input			50 // 0	Ω // pF	
Output			50 // 0	Ω // pF	
Group delay				μs	
Input Power					
nominal		0,1		mW	
Maximum (for 10 sec)			1	mW	
Operating temperature range	0		+60	°C	
Operable temperature range	-20		+70	°C	
Storage temperature range	-40		+85	°C	
Enclosure (see drawing)	58.2 x 17.2 x 14max			mm	
Terminals	SMA			female	
Packing	bulk				
ESD Sensitivity	1500			V	HBM as in IEC 61000-4-2

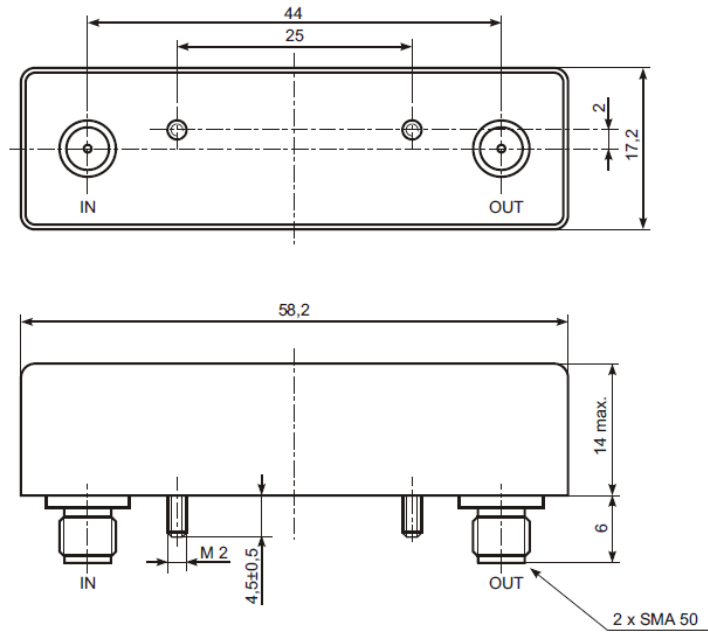
Notes:

1. Terminology and test conditions are according to IEC standard IEC60368-1, unless otherwise stated
2. RF input power of >10 mW must be avoided, as it may result in permanent damage of the filter.

Ordering Code:

Model (Specification)	Revision	Frequency [MHz]
QF3105	2	144.164

Enclosure drawing



Environmental conditions

Test	IEC 60068 Part ...	IEC 60386-1 Clause ...	Test conditions
Sealing tests (if applicable)	2-17	2.3.6	Gross leak: Test Qc, Fine leak: Test Qk
Solderability Resistance to soldering heat	2-20 2-58	4.6.3	Test Ta (235 ± 5)°C Method 1 Test Tb Method 1A, 5s
Shock*	2-27	2.3.5	Test Ea, 3 x per axes 100g, 6 ms half-sine pulse
Vibration, sinusoidal*	2-6	2.3.4	Test Fc, 30 min per axes, 10 Hz - 55 Hz 0,75mm; 55 Hz - 2 kHz, 10g

Revision History

Rev.	Date [dd.mm.yyyy]	Remarks	Author	Checked
1	25.11.2013	First issue (Preliminary for 145.0125 MHz only)	HH	BN
2	17.10.2016	Editorial changes. Frequency range added	HH	BN