

<b>Specification</b>	<b>QF3300</b>	Issue: 01	Date: 2003-03-10
<b>Filter type : Front End ( Antenna) Crystal Filter</b>			

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Parameter	min.	typ.	max.	Unit	Condition
<b>Frequency range</b>	135		180	MHz	
<b>Standard frequencies</b>				kHz	
<b>Pass bandwidth</b>	±12,5			kHz	@ 3 dB
<b>Pass band ripple</b>			1	dB	@ fo ± 8 kHz
<b>Insertion / transducer attenuation</b>			6	dB	
<b>Shape factor SF</b>					... dB / ... dB
<b>Selectivity</b>					
			±30	kHz	@ 20 dB
			±80	kHz	@ 60 dB
				kHz	@ ... dB
<b>Spurious response attenuation</b>	30			dB	
<b>Ultimate attenuation</b>	60			dB	
<b>Termination</b>					
Input		50 // 0		Ω // pF	
Output		50 // 0		Ω // pF	
<b>Group delay</b>				μs	
<b>Input Power</b>					
nominal		0,1		mW	
Maximum (for 10 sec)			1	mW	
<b>Operating temperature range</b>	0		+60	°C	
<b>Operable temperature range</b>	-20		+70	°C	
<b>Storage temperature range</b>	-40		+85	°C	
<b>Enclosure (see drawing)</b>	61 x 26,2 x 26,2			mm	
<b>Terminals</b>	BNC, N or SMA			female	Option I
<b>Weight</b>				gram	
<b>Packing</b>	bulk				
<b>ESD Sensitivity</b>	1500			V	HBM as in IEC 61000-4-2

**Notes:**

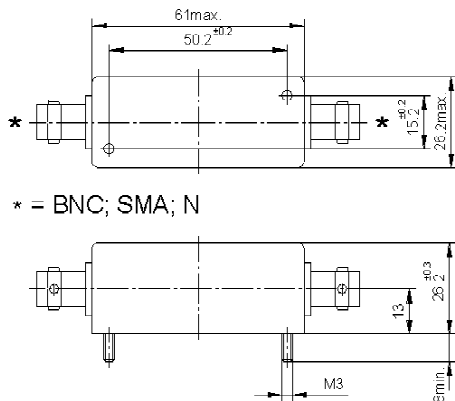
1. Terminology and test conditions are according to IEC standard IEC60368-1, unless otherwise stated

**Ordering Code:**

Model (Specification)	Option I	Frequency [MHz]
QF3300	BNC	144,250

## Enclosure drawing

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\* = BNC; SMA; N

## Pin connections

Terminal	Symbol	Function
1 *	IN	Input
2 *	OUT	Output
screw	GND	Ground, Case

\* marking on request only

## Environmental conditions

Test	IEC 60068 Part ...	IEC 61178-1 clause ...	Test conditions
Visual inspection, dimensions		4.5 4.6	Enclosure styles as in IEC 60368-3, if applicable
Sealing tests	2-17	4.8.2	Gross leak: Test Qc, Fine leak: Test Qk
Solderability Resistance to soldering heat	2-20	4.8.3	Test Ta (235 ± 5)°C Method 1 Test Tb Method 1A, 5s
Shock	2-27	4.8.8	Test Ea, 3 x per axes 100g, 6 ms half-sine pulse
Bump	2-29	4.8.6	Test Eb, 4000 bumps per Axes, 40g, 6 ms
Free fall	2-32	4.8.9	Test Ed procedure 1, 2 drops from 1m height
Vibration, sinusoidal	2-6	4.8.7	Test Fc, 30 min per axes, 10 Hz - 55 Hz 0,75mm; 55 Hz - 2 kHz, 10g
Rapid change of temperature	2-14	4.8.5	Test Na, 10 cycles at extremes of operating temperature range
Dry heat	2-2	4.8.11	Test Ba, 16 h at upper temperature indicated by climatic category
Damp heat, cyclic	2-30	4.8.12	Test Db variant 1 severity b), 55°C/95% r.H., 6 cycles
Cold	2-1	4.8.13	Test Aa, 2 h at lower temperature indicated by climatic category
Climatic sequence	1-7	4.8.14	Sequence of 4.8.11, 4.8.12 (1 <sup>st</sup> cycle), 4.8.13, 4.8.12 (5 cycles)
Damp heat, steady state	2-3	4.8.15	Test Ca, 56 days
Endurance tests			
- ageing		4.9.1	30 days @ 85°C
- extended aging		4.9.2	1000h, 2000h, 8000h @85°C