

- **Ideal Front-End Filter for European Wireless Receivers**
- **Low-Loss, Coupled-Resonator Quartz Design**
- **Simple External Impedance Matching**
- **Rugged, Hermetic, Low Profile F-11 Package**

SF110N

Absolute Maximum Rating (Ta=25°C)		
Parameter	Rating	Unit
CW RF Power Dissipation	+ 0	dBm
DC Voltage V _{DC}	± 10	V
AC Voltage V _{pp}	10 (50Hz/60Hz)	V
Operating Temperature Range	-20 ~ +55	°C
Storage Temperature Range	-45 ~ +85	°C

Specifications					
Parameter	Sym	Minimum	Typical	Maximum	Unit
Center Frequency (25°C)	f _c	NS	110.592	NS	MHz
Insertion Loss	IL	-	-	4.5	dB
3dB Bandwidth	BW ₃	-	±576	-	KHz
Attenuation	f _c ± 5.0 MHz	-	50	-	dB
	f _c ± 3.5 MHz	-	40	-	dB
	f _c ± 2.0 MHz	-	30	-	dB
Group Delay Deviation	-	-	-	0.7	μs
Input/Output Impedance	-	-	300 1.2	-	Ω μH
DC Insulation Resistance Between any Two Pins	-	1.0	-	-	MΩ

NS = Not Specified

Notes	Package Outline (F-11)
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1. Static voltage

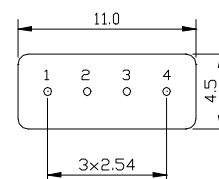
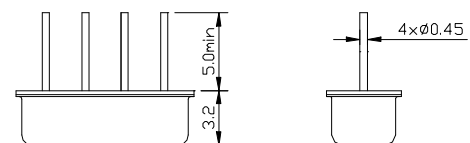
Static voltage between signal load & ground may cause deterioration & destruction of the component. Please avoid static voltage.

2. Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning.

3. Soldering

Only leads of component may be solder. Please avoid soldering another part of component.



Pin	Connection
1	Input
2	Ground
3	Ground
4	Output

All dimensions are in mm