

# TMX W353

SAW Bandpass Filter – Bluetooth - RF  
Specification (Rev 2)

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# TMX W353

## SAW Bandpass Filter – Bluetooth - RF

Specification (Rev.2)- RF

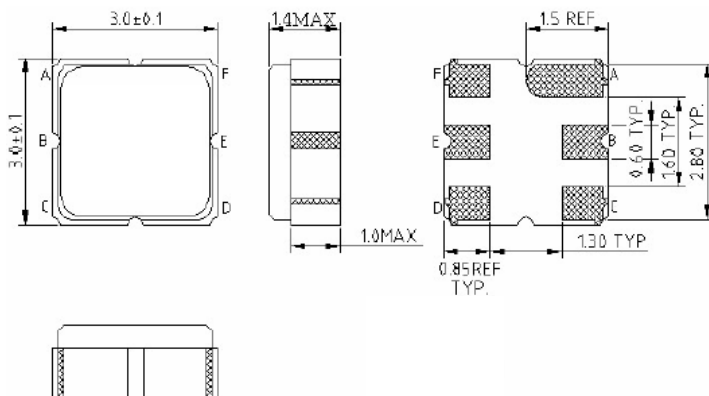
November 17<sup>th</sup>, 2006

### Features

- ❑ RF SAW Filter for Bluetooth
- ❑ 2441.8 MHz Center Frequency
- ❑ 83.5 MHz useable Passband
- ❑ 50 Ohms Single Configuration
- ❑ Ceramic package for Surface Mounted Technology

### Package Drawing & Pin out

The product is in conformance with the European RoHs Regulation 2002/95.



#### Pin Configuration

<b>Input</b>	B
<b>Output</b>	E
<b>Case ground</b>	A, C, D, F

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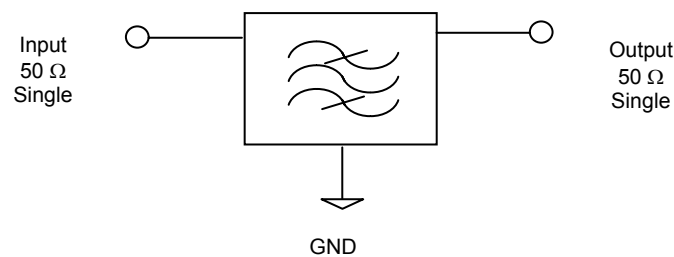
November 17<sup>th</sup>, 2006

### Technical Characteristics

Reference Temperature : +25°C

Electrical Parameters	Unit	Minimum	Typical <sup>(1)</sup>	Maximum
Source Impedance (single)	Ohms	-	50	-
Load Impedance (single)	Ohms	-	50	-
Center Frequency $f_c$	MHz	-	2441.8	-
Bandwidth at -3dB	MHz	83.5	-	-
<b>Absolute Attenuation</b>				
10 MHz to 1700 MHz	dB	20	29	-
1700 MHz to 2200 MHz	dB	25	30	-
2700 MHz to 3100 MHz	dB	30	40	-
3100 MHz to 4000 MHz	dB	20	29	-
4000 MHz to 5000 MHz	dB	10	20	-
Insertion Loss within 2400 MHz – 2483.5 MHz	dB	-	2.1	5.0
Amplitude ripple within 2400 MHz – 2483.5 MHz	dB	-	0.9	3.0
Input/Output VSWR within 2400 MHz–2483.5 MHz		-	1.7	2.6

### Matching Network



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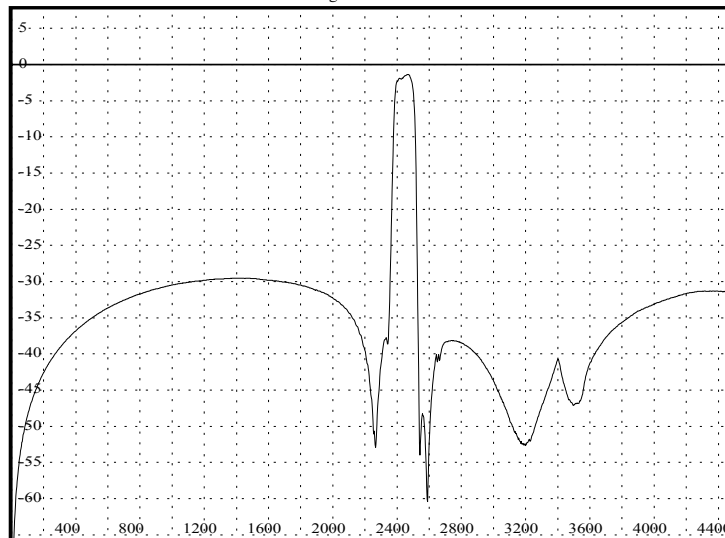
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**Nominal Frequency Response (Measurements)**

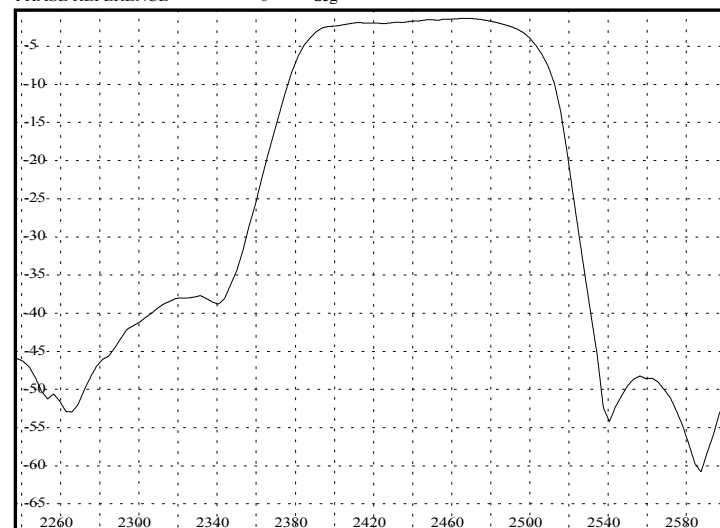
### Frequency Response

<u>References</u>		<u>Scales</u>	
CENTER FREQUENCY	= 0 MHz	SCALE_FREQUENCY	= 200 MHz/div
LOSS REFERENCE	= 0 dB		
DELAY REFERENCE	= 0 μs		
PHASE REFERENCE	= 0 deg		



### Frequency Response

<u>References</u>		<u>Scales</u>	
CENTER FREQUENCY	= 0 MHz	SCALE_FREQUENCY	= 20 MHz/div
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## SAW Bandpass Filter – Bluetooth - RF

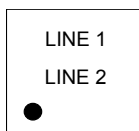
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### Maximum Ratings

Storage Temperature Range	°C	[-40°C ; +85°C]
Operating temperature	°C	[-40°C ; +85°C]
DC voltage	V	0
Input Power	dBm	10

### Marking



Line 1: "NNNN" is the reference to Temex Part number with only the last 4 digits

Line 2: RYWWZZ is the date code as:

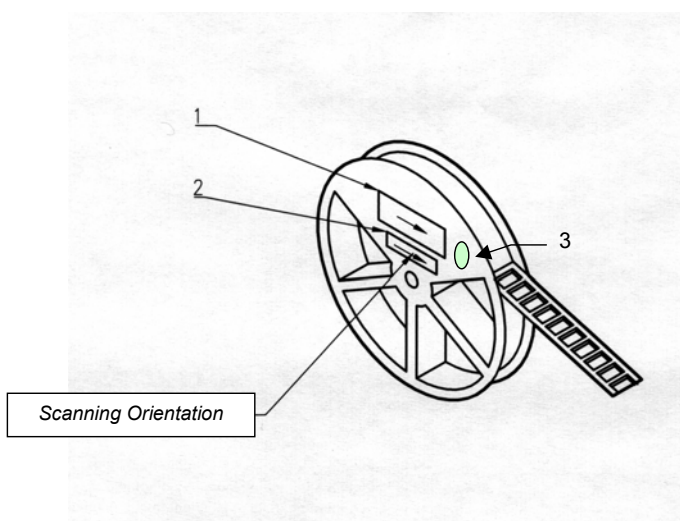
R: Partner identifier.

Y: last digit of the year.

WW: number of week in the year

ZZ: Lot number in the week (from AA to ZZ).

### Packaging



- 1 – Temex Label
- 2 – ESD Prevention Label
- 3 – Pb Free Label