

# TMX ET01

SAW Bandpass Filter - RF  
*Preliminary Specification (Rev 1)*

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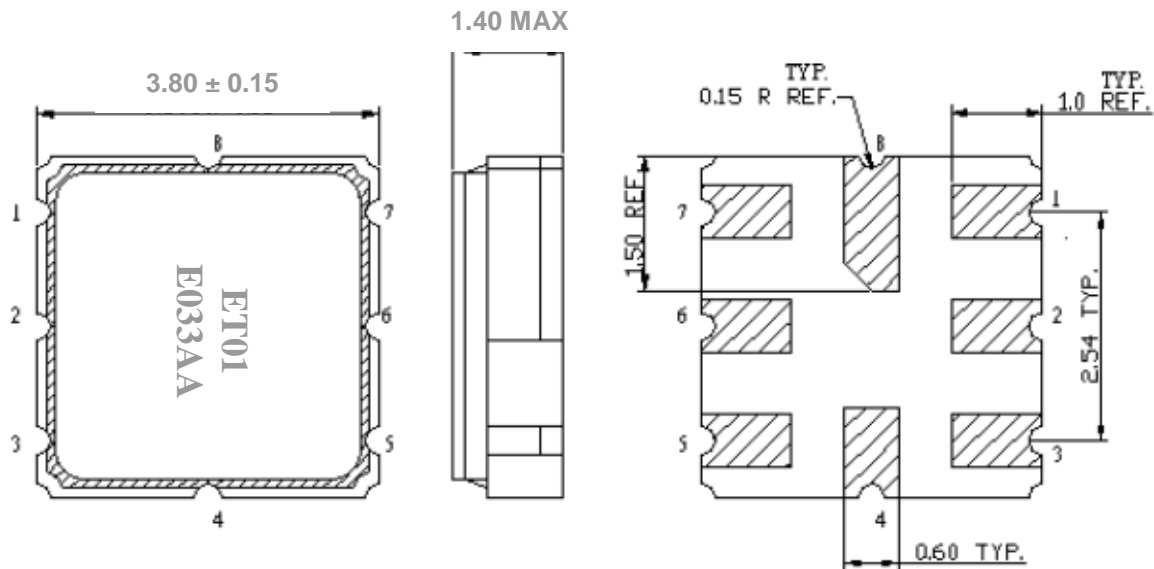
March 22<sup>nd</sup>, 2010

### Features

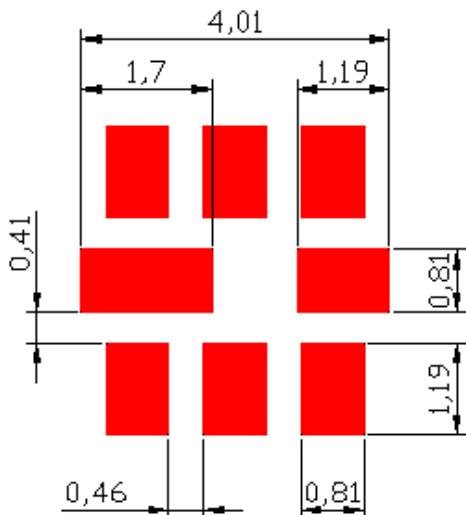
- ❑ RF SAW Filter
- ❑ 503.5 MHz Center Frequency
- ❑ Ceramic package for Surface Mounted Technology
- ❑ RoHS Compliant

### Package Drawing & Pin out

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



### PCB Footprint



### Pin Configuration

Input	2
Output	6
Case Ground	1, 3, 4, 5, 7, 8

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### Technical Characteristics

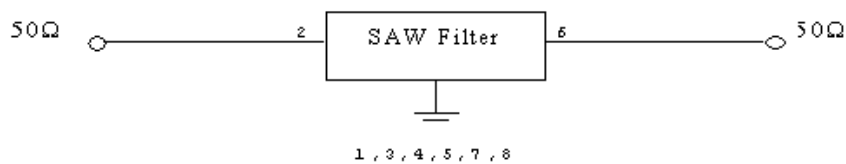
Reference Temperature : +25°C

Electrical Parameters	Unit	Minimum	Typical <sup>(1)</sup>	Maximum
Center Frequency fo	MHz		503.5	
Insertion Loss within 495.0 ~ 512.0 MHz	dB	-	2.4	3.2
Amplitude ripple within 495.0 ~ 512.0 MHz	dB	-	0.9	2.4
Return Loss within 495.0 ~ 512.0 MHz	dB	6	7.6	-
<b>Attenuation (Reference level from 0 dB)</b>				
From 0.3 MHz to 300 MHz	dB	30	58	-
From 300 MHz to 380 MHz	dB	24	55	-
From 380 MHz to 473.5 MHz	dB	15	50	-
From 548.325 MHz to 568.325 MHz	dB	12	52	-
From 568.825 MHz to 579.650 MHz	dB	28	55	-
From 669.3 MHz to 689.3 MHz	dB	24	51	-
From 689.3 MHz to 1000 MHz	dB	26	43	-
Source Impedance (Single ended)	Ohms		50 <sup>(2)</sup>	
Load Impedance (Single ended)	Ohms		50 <sup>(2)</sup>	
<b>Package type &amp; size</b>				
Length x Width	mm		3.8 x 3.8	
Height	mm			1.40
<b>Pin Out</b>				
Input	2	Output	6	
Case Ground	1,3,4,5,7,8	To be grounded	1,3,4,5,7,8	

**Notes :**

- (1) Typical values are nominal performances at room temperature
- (2) Not external matching circuit is required

### Measurement Circuit



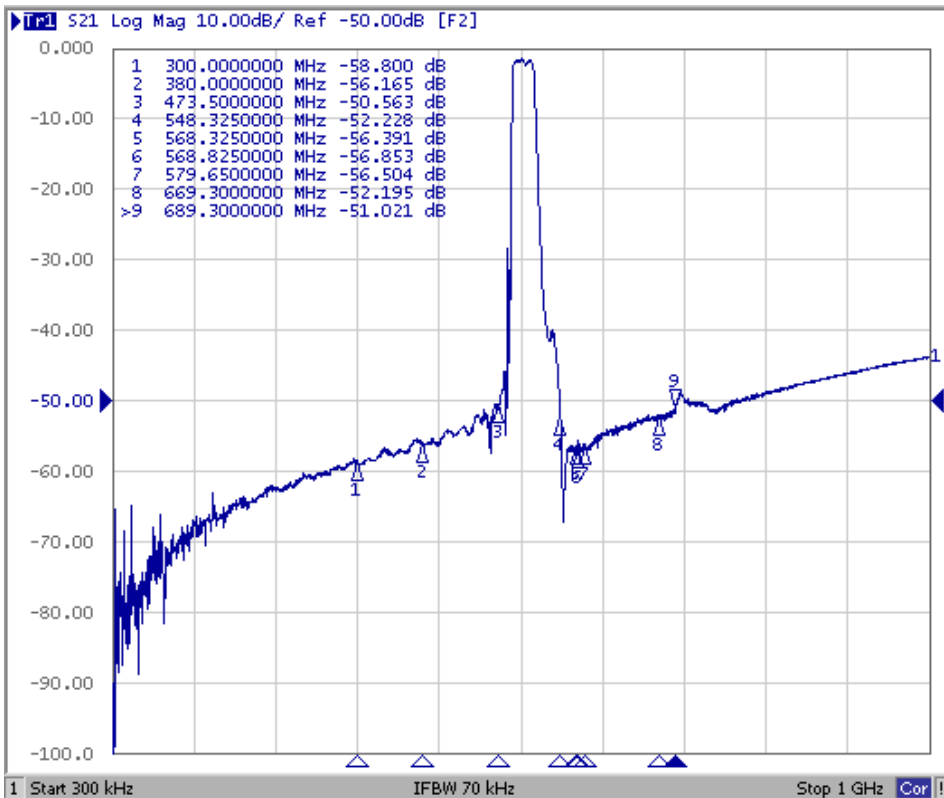
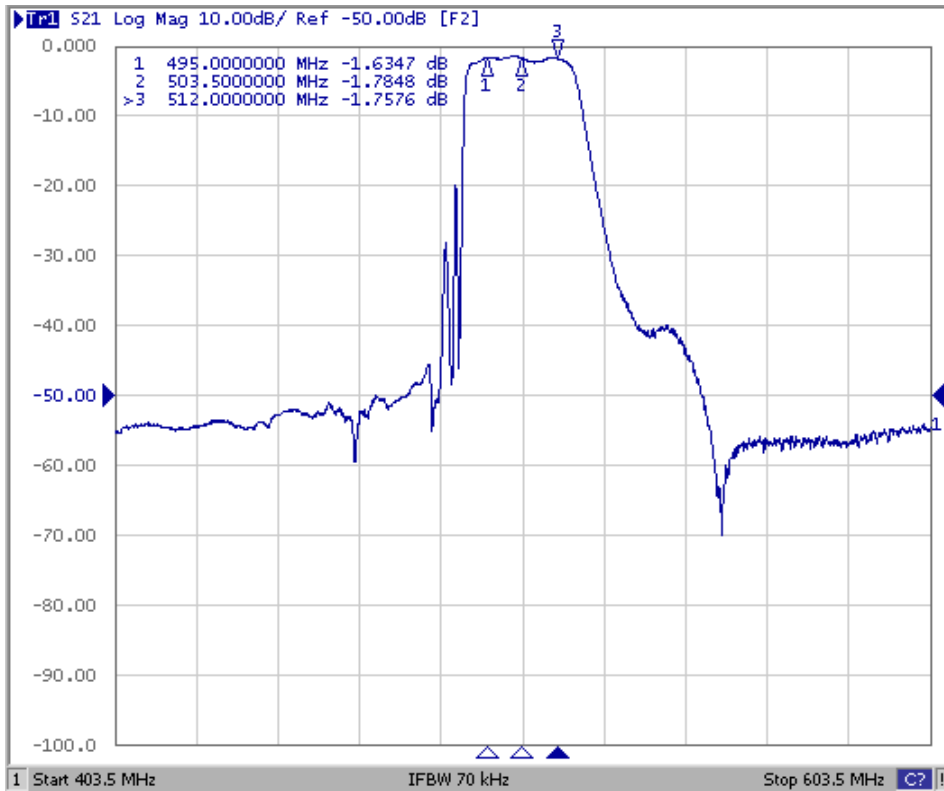
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**Nominal Frequency Response (Measurements)**



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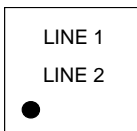
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### Maximum Ratings

Storage Temperature Range	°C	[-40°C ; +85°C]
Operating temperature	°C	[-30°C ; +60°C]
DC voltage	V	5
RF Power Dissipation	dBm	10

### Marking



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

Line 2: EYWWZZ is the date code as:

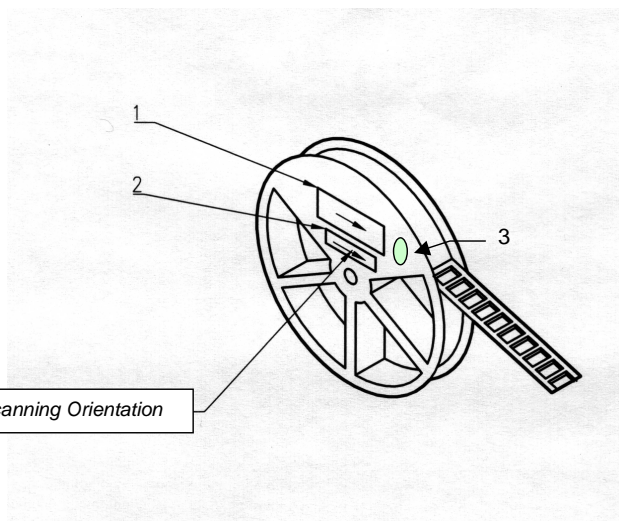
**E:** Partner identifier.

**Y:** last digit of the year.

**WW:** number of week in the year

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

### Packaging



1Kpcs/reel

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