

# TMX DT03

SAW Bandpass Filter -Remote Control - RF  
*Specification (Rev 2)*

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## SAW Bandpass Filter – Remote Control - RF

Specification (Rev 2)

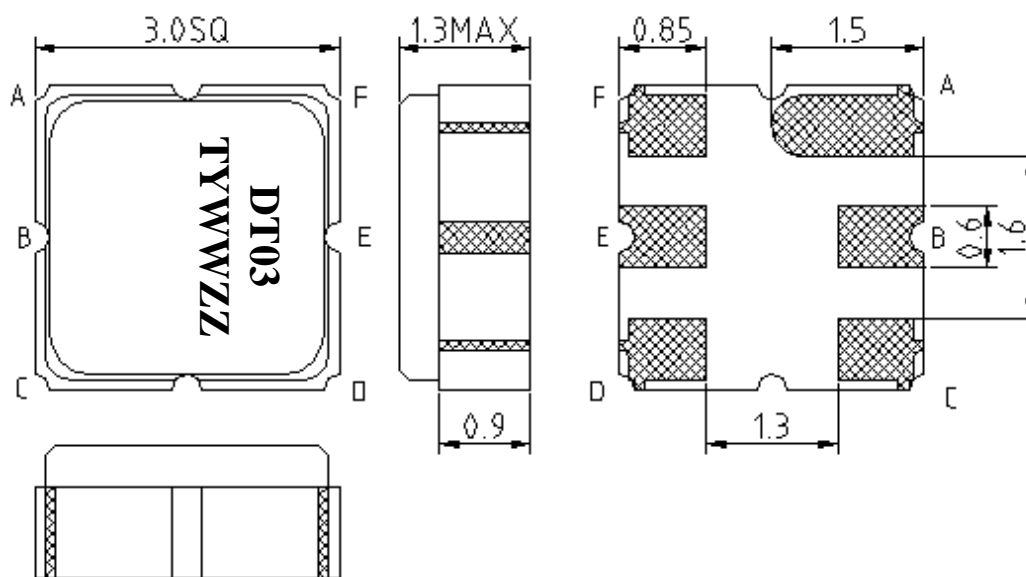
September 21<sup>st</sup>, 2011

### Features

- ❑ RF SAW Filter
- ❑ 433.92 MHz Center Frequency
- ❑ Bandwidth : 1.6MHz
- ❑ 50 Ohms Single Configuration
- ❑ Ceramic package for Surface Mounted Technology

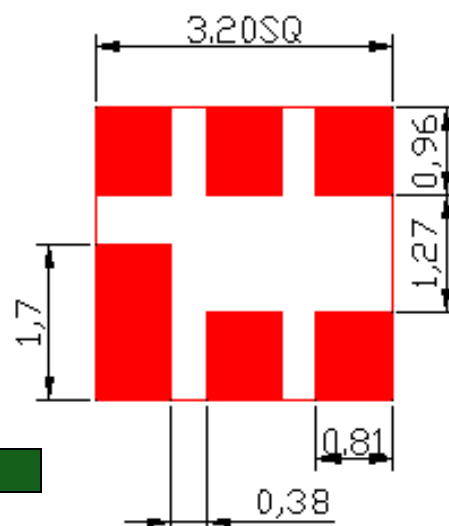
### Package Drawing & Pin out

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



### Pin Configuration

Input	B
Output	E
Case Ground	A, C, D, F



### PCB FOOTPRINT :

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### Technical Characteristics

Reference Temperature : +25°C

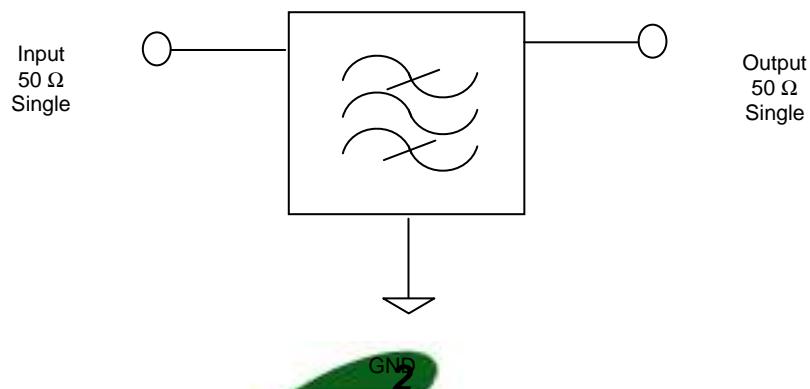
Electrical Parameters	Unit	Minimum	Typical <sup>(1)</sup>	Maximum
Source Impedance (Single ended)	Ohms	-	50 <sup>(2)</sup>	-
Load Impedance (Single ended)	Ohms	-	50 <sup>(2)</sup>	-
Center Frequency fo	MHz		433.92	
<b>Absolute Attenuation (reference from 0 dB)</b>				
From 10.000 MHz to 380.00 MHz		58	61	
From 380.00 MHz to 423.42 MHz	dB	46	50	-
From 443.42 MHz to 453.42 MHz	dB	25	30	-
From 453.42 MHz to 460.00 MHz	dB	35	40	-
From 460.00 MHz to 700.00 MHz	dB	50	54	
From 700.00 Mhz to 1000.0 MHz	dB	42	46	
Insertion Loss in 433.12 MHz – 434.72 MHz	dB		2.2	2.9
Amplitude ripple within [433.12 MHz – 434.72 MHz]	dB		0.4	1.0
VSWR S11 S22	-		1.6	2.0
<b>Package type &amp; size</b>				
Length x Width	mm		3.0 x 3.0	
Height	mm			1.3
<b>Pin Out</b>				
Input	B	Output	E	
Case Ground	A,C,D,F	To be grounded	A,C,D,F	

**Notes :**

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

### Matching Network

#### 50 Ω / 50 Ω Configuration



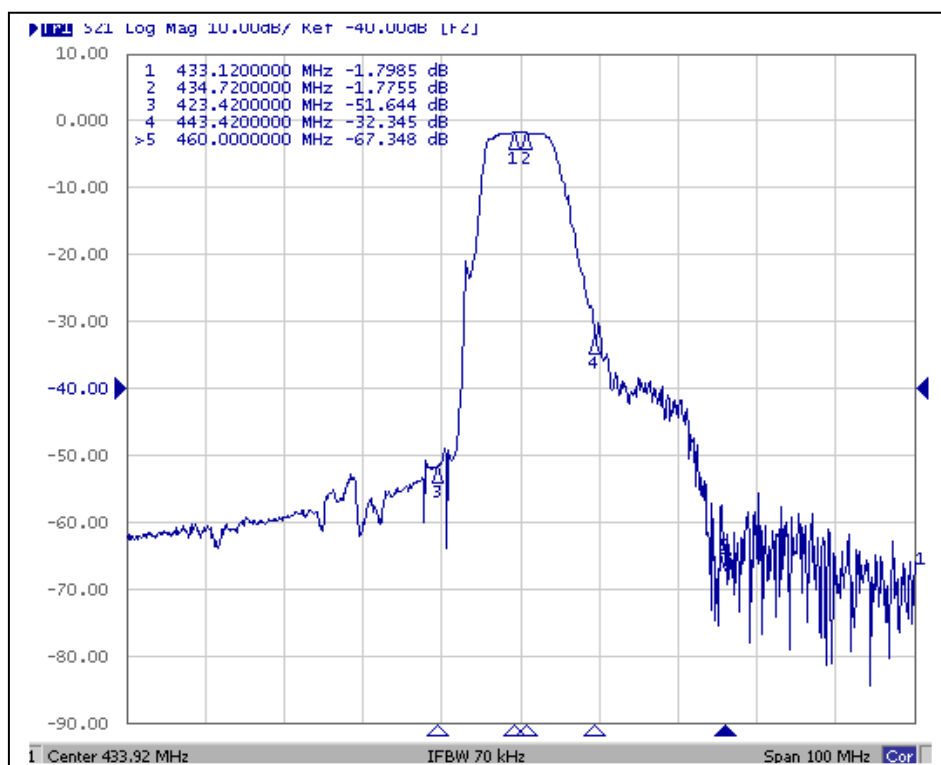
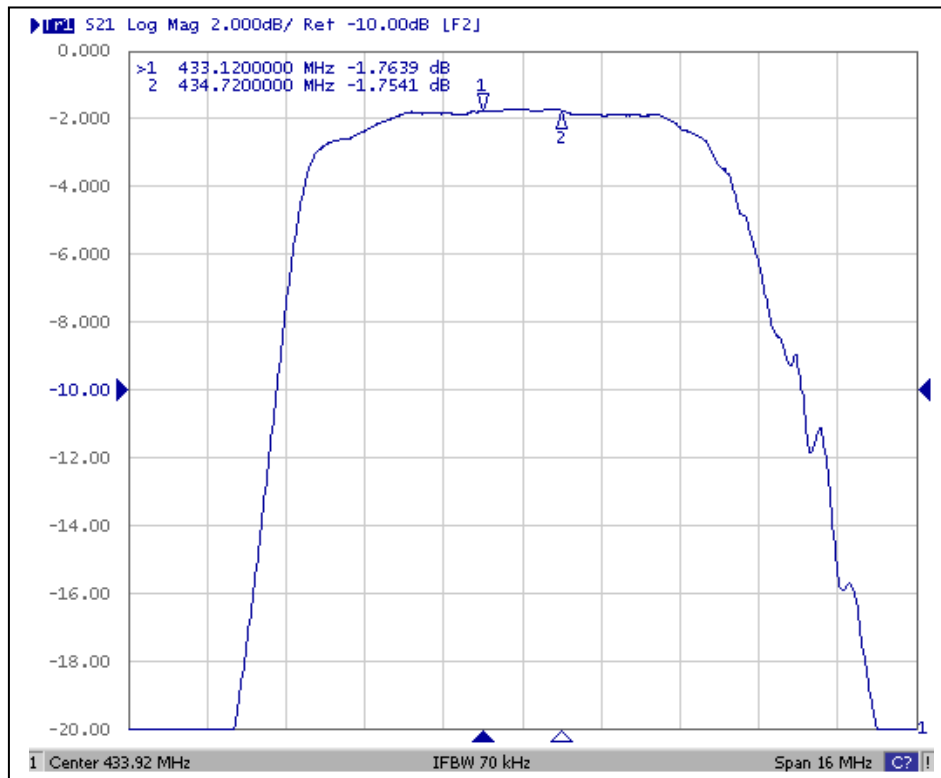
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### Nominal Frequency Response (Measurements)

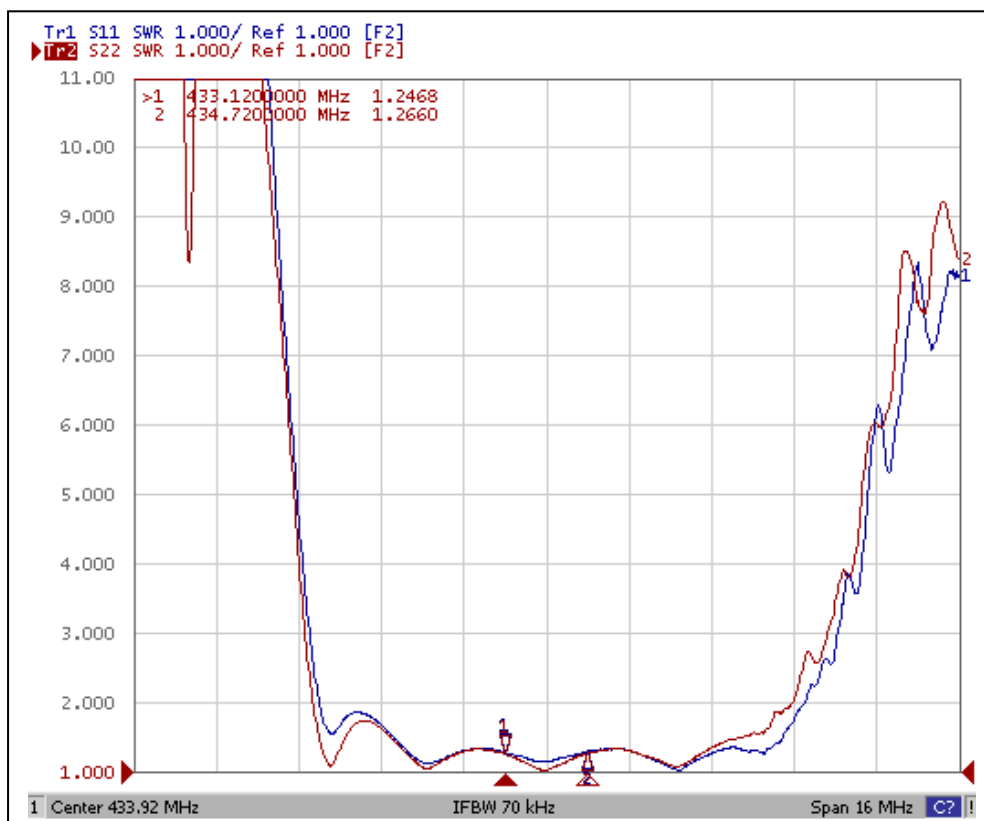
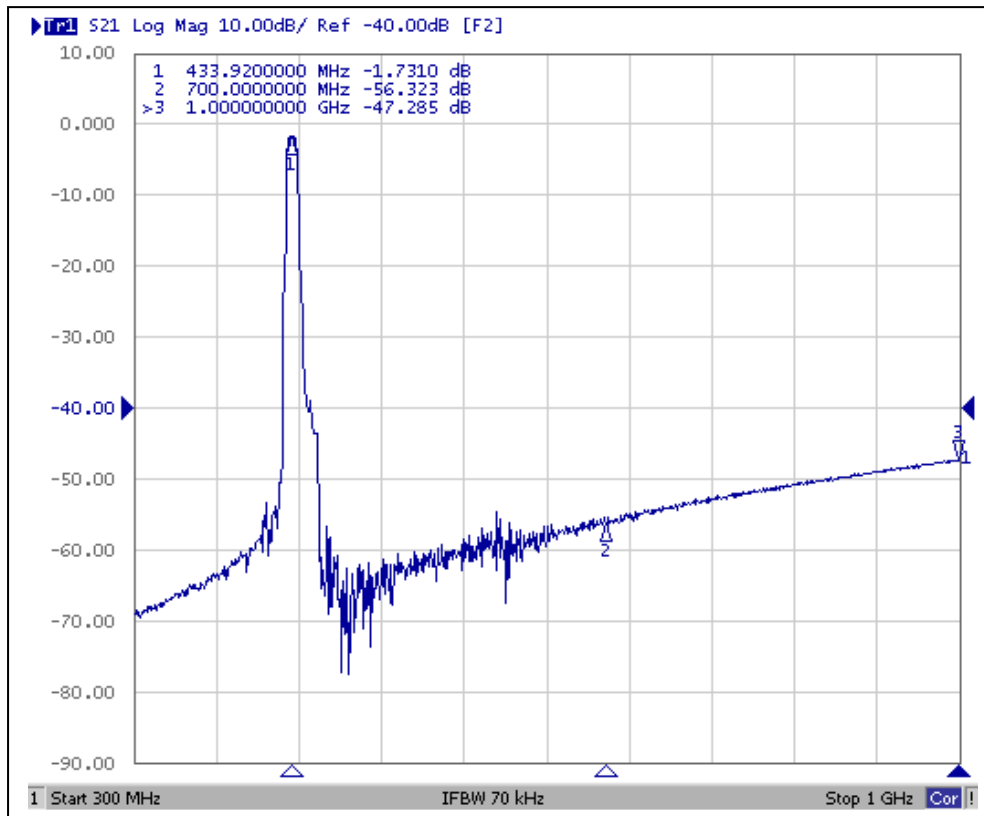


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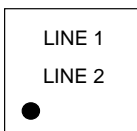
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### Maximum Ratings

Storage Temperature Range	°C	[-40°C ; +85°C]
Operating temperature	°C	[-40°C ; +85°C]
DC voltage	V	3
RF Power Dissipation	dBm	13

### Marking



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

Line 2: TYWWZZ is the date code as:

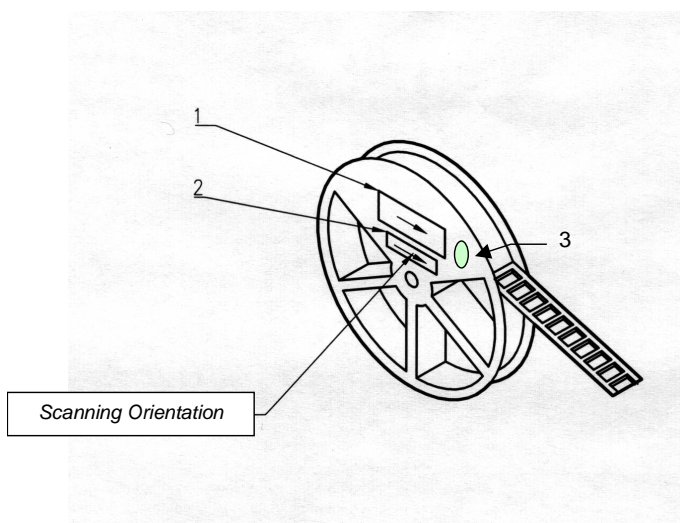
T: Partner identifier.

Y: last digit of the year.

WW: number of week in the year

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

### Packaging



3Kpcs/reel

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