

# TMX JT01

RF SAW Filter for Telecommunications

*Specification (Rev 2)*

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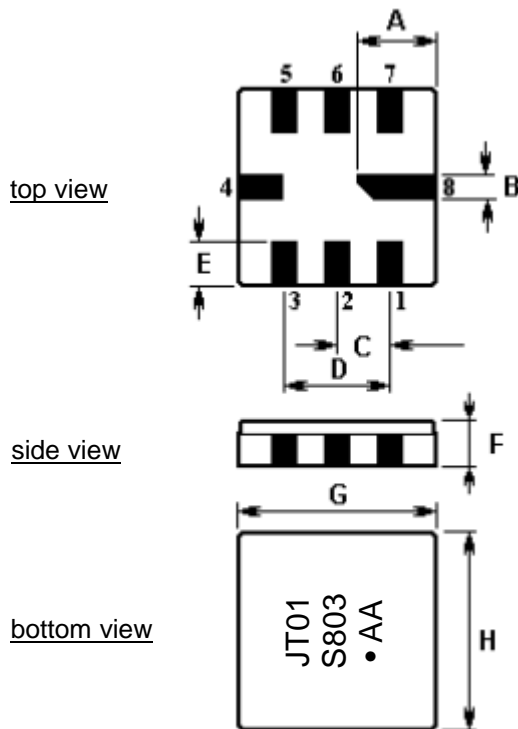
May 28<sup>th</sup>, 2018

### Features

- ❑ 433.92 MHz Center Frequency
- ❑ Typical Passband Width : 2 MHz
- ❑ Low loss RF filter and low amplitude ripple
- ❑ No matching network required for operation at 50  $\Omega$
- ❑ Lead-free and RoHS compliance

### Package drawing & Pin out

The product is in conformance with the European RoHS Recast Directive (100/65/EU).



unit : mm

#### Pin configuration

Pin	Configuration
1	Input / Output ground
2	Input / Output
5	Output / Input ground
6	Output / Input
3,7	To be Grounded
4,8	Case Ground

Sign	Unit: mm	Sign	Unit: mm
A	2.08	E	1.20
B	0.60	F	1.35
C	1.27	G	5.00
D	2.54	H	5.00

#### Marking

Line	Marking	Description
Line 1	JT01	Temexpress designation
Line 2	S803	S is production Code / 8 is Year 2085 & 03 is Week 03
Line 3	• AA	• Pin 1 Identifier AA" is internal production batch code, it corresponds to the wafer

Marking is made by Laser

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### Technical characteristics

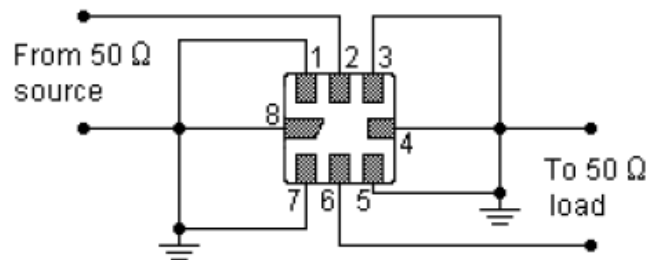
Reference Temperature: +25°C

Electrical Parameters	Unit	Minimum	Typical <sup>(1)</sup>	Maximum
Center Frequency $f_0$	MHz	-	433.92	-
Insertion Loss within $f_0 \pm 2$ Mhz	dB	-	2.2	4.2
3dB PassBand Width	MHz	-	$\pm 2$	-
Amplitude ripple (p-p) / $f_0 \pm 2$ MHz	dB	-	-	1.5
<b>Absolute Attenuation</b>				
DC to $f_0 - 20.0$ MHz	dB	33	43	-
$f_0 + 25.0$ MHz to $f_0 + 100.0$ MHz	dB	38	48	-

**Note** :Typical values are nominal performances at room temperature

### Measurement circuit

#### Test circuit



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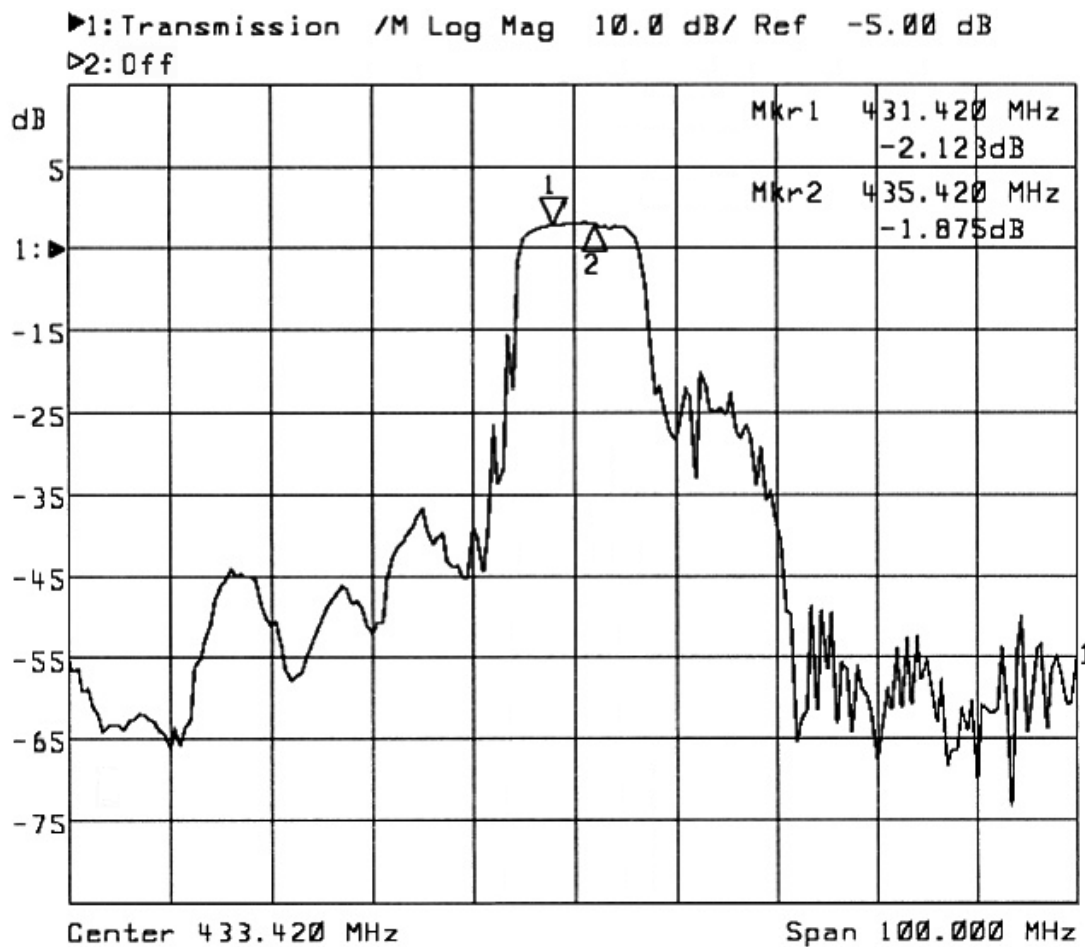
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Frequency characteristics

Typical Frequency RESPONSE



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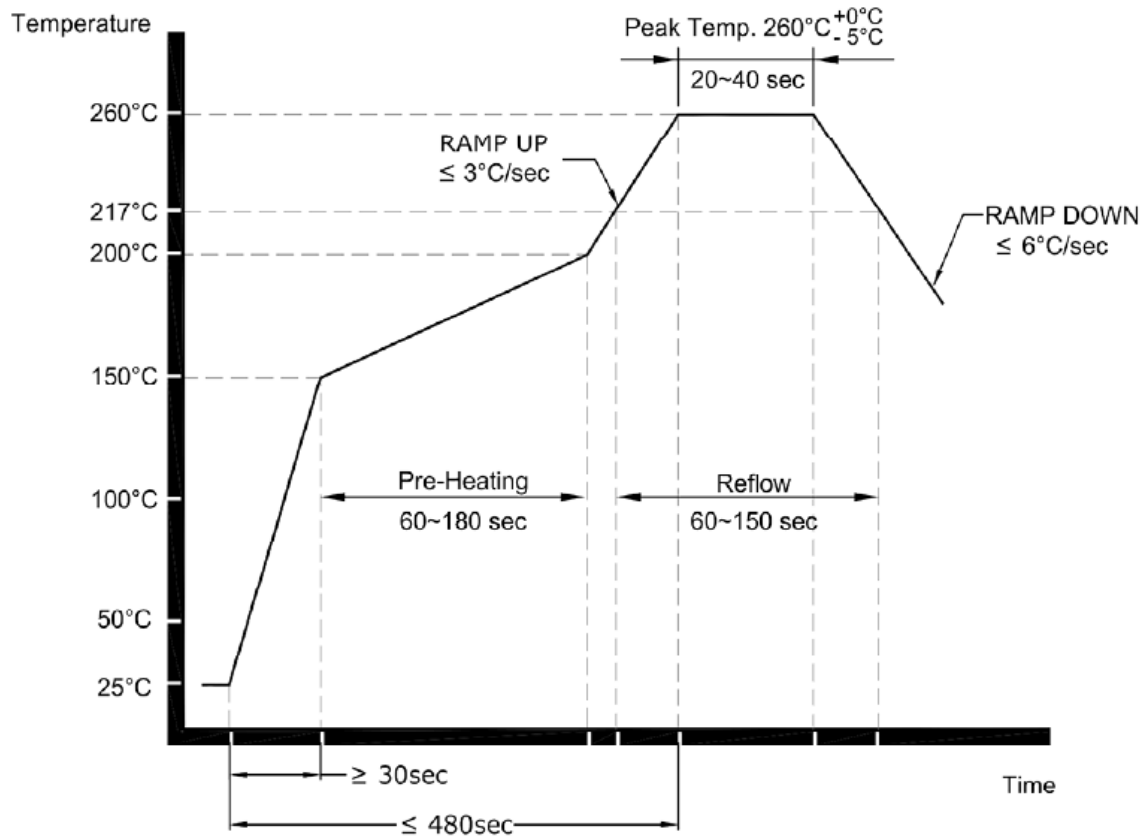
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## Maximum ratings

Storage Temperature Range	°C	[-40°C ; +85°C]
Operating Temperature	°C	[-10°C ; +65°C]
DC Voltage	V	10
RF Power (in Band Width)	dBm	+10

## Recommended reflow soldering profile



Referred to JEDEC J-STD-020C.

The components shall remain within the electrical specifications after it soldered on the 1mm thickness PCB board and dipped in the solder at  $260 \pm 5$  degC during  $10 \pm 1$  seconds.

The components shall remain within the electrical specifications after it soldered by electric iron, solder at  $350 \pm 10$  degC during 3~4 seconds. Recovery time:  $2\text{h} \pm 0.5\text{h}$ .

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

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