

TMX DT07

SAW Bandpass Filter - RF
Preliminary Specification (Rev 1)

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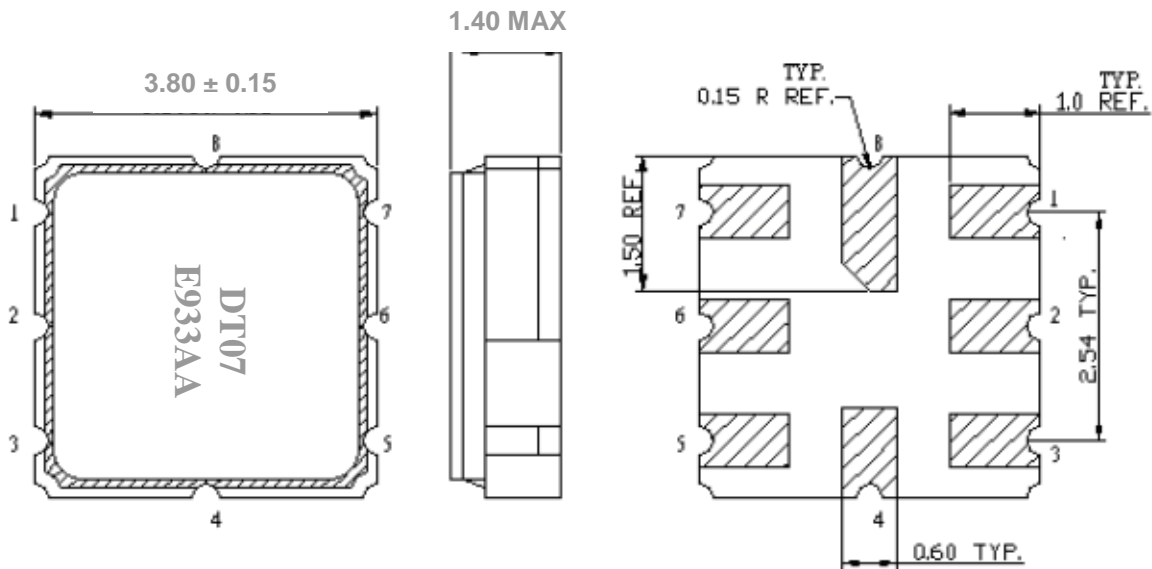
Aug 12th, 2009

Features

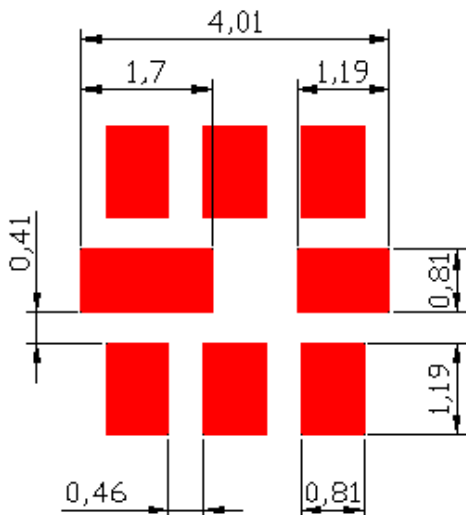
- ❑ RF SAW Filter
- ❑ 460.0 MHz Center Frequency
- ❑ Ceramic package for Surface Mounted Technology
- ❑ RoHS Compliant

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

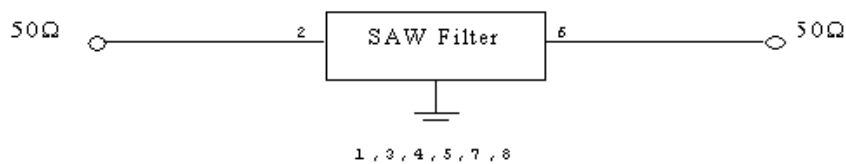
Reference Temperature : +25°C

Electrical Parameters	Unit	Minimum	Typical ⁽¹⁾	Maximum
Center Frequency fo	MHz		460.0	
Insertion Loss within 450.0 ~ 470.0 MHz	dB	-	2.6	3.2
Amplitude ripple within 450.0 ~ 470.0 MHz	dB	-	1.2	2.4
Return Loss within 450.0 ~ 470.0 MHz	dB	7	8.2	-
Attenuation (Reference level from 0 dB)				
From 0.3 MHz to 300 MHz	dB	30	58	-
From 300 MHz to 380 MHz	dB	24	56	-
From 380 MHz to 430 MHz	dB	15	54	-
From 504.825 MHz to 524.825 MHz	dB	12	44	-
From 559.650 MHz to 579.650 MHz	dB	28	56	-
From 669.3 MHz to 689.3 MHz	dB	24	54	-
From 689.3 MHz to 1000 MHz	dB	26	44	-
Source Impedance (Single ended)	Ohms		50 ⁽²⁾	
Load Impedance (Single ended)	Ohms		50 ⁽²⁾	
Package type & size				
Length x Width	mm		3.8 x 3.8	
Height	mm			1.40
Pin Out				
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



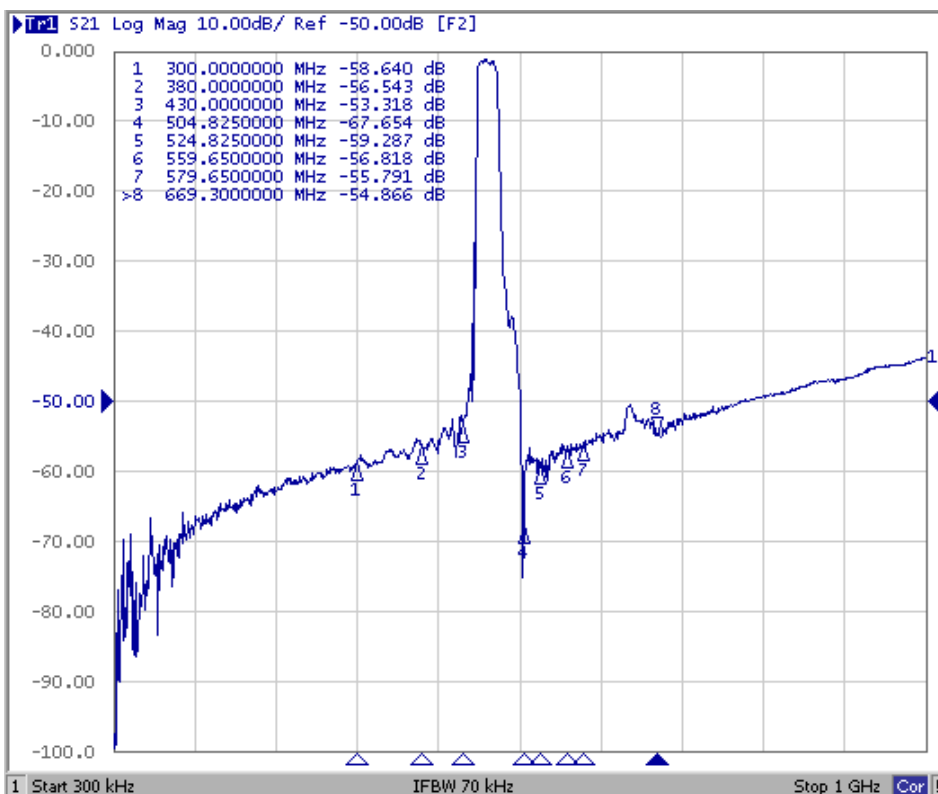
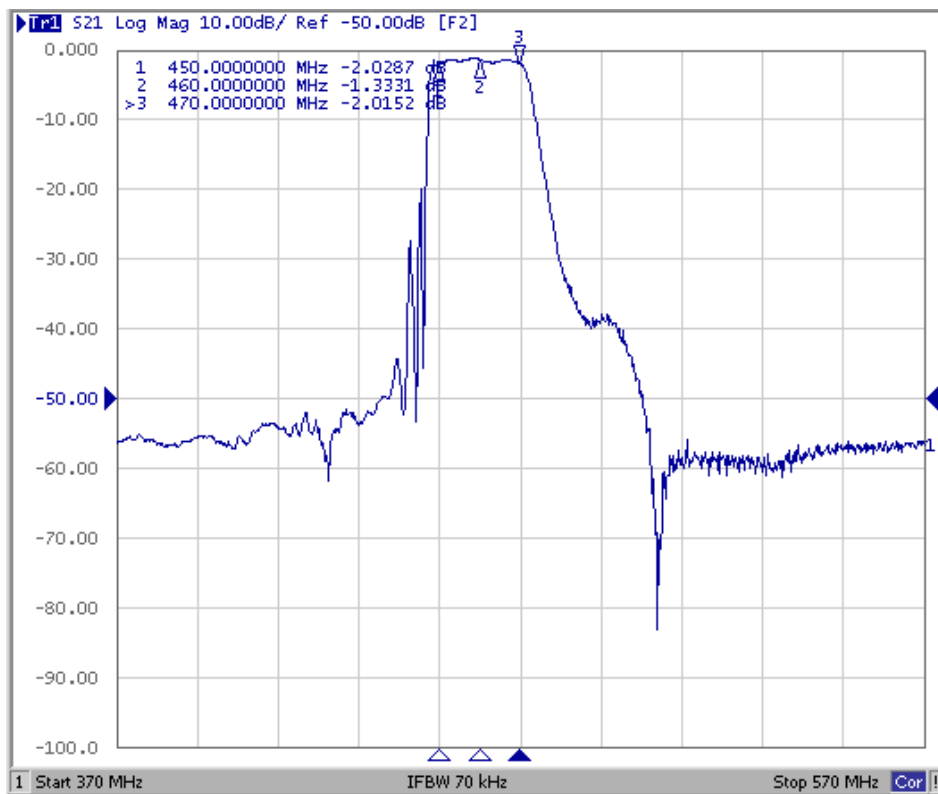
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Nominal Frequency Response (Measurements)



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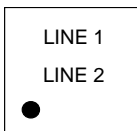
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Maximum Ratings

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:

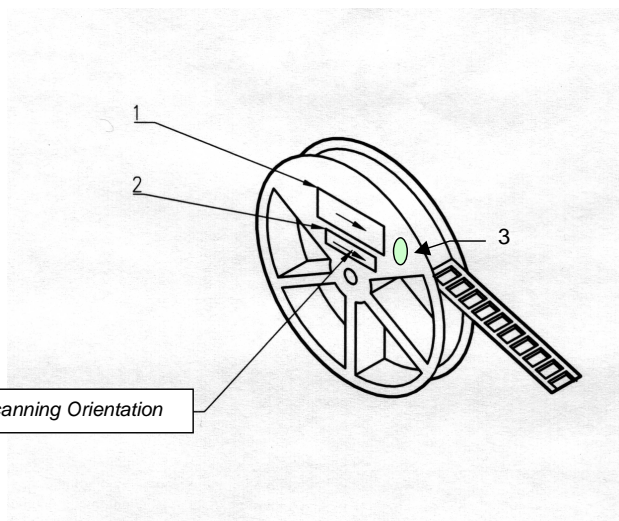
E: Partner identifier.

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