

# TMX S143

## SAW BANDPASS FILTER - ISM – RF

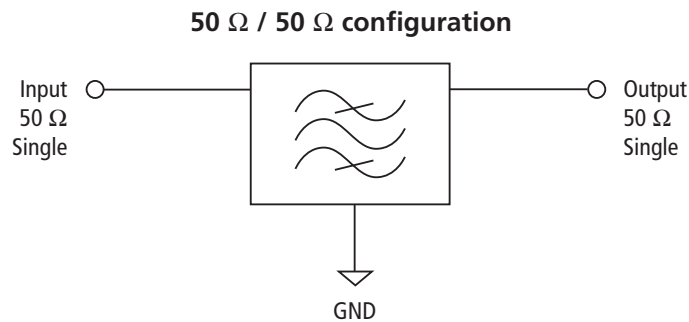
### Preliminary Specification

Operating temperature range [-10°C; +60°C]

		Minimum	Typical	Maximum
Source Impedance (single ended)	$\Omega$		50 <sup>(2)</sup>	
Load Impedance (single ended)	$\Omega$		50 <sup>(2)</sup>	
Center Frequency $f_c$	MHz		869	
<b>Absolute Attenuation</b>				
300 kHz to 856.4 MHz	dB	40	42	
856.4 MHz to 858.5 MHz	dB	20	35	
880 MHz to 883 MHz	dB	20	35	
883 MHz to 1200 MHz	dB	45	54	
1200 MHz to 2000 MHz	dB	35	40	
Maximum Insertion Loss in 868 MHz-870 MHz	dB		2.4	4.0
Amplitude Variation in 868 MHz-870 MHz <sup>(3)</sup>	dB		0.3	0.8
Input VSWR in 868 MHz-870 MHz at 21°C			1.8: 1	2.3: 1
Output VSWR in 868 MHz-870 MHz at 21°C			1.8: 1	2.3: 1
Power capacity in 868 MHz-870 MHz	dBm			17
<b>Package type &amp; size</b>				
Length x Width	mm <sup>2</sup>		3.0 x 3.0	
Height	mm		1.2	1.35
<b>Pin Out</b>				
Input	2	Output	5	
Case Ground	1, 3, 4, 6	To Be Grounded	1, 3, 4, 6	

**Note:**

- (1) Typical values are nominal performances at room temperature
- (2) No external matching circuit is required
- (3) The amplitude variation is defined as the maximum level – minimum level over the given bandwidth

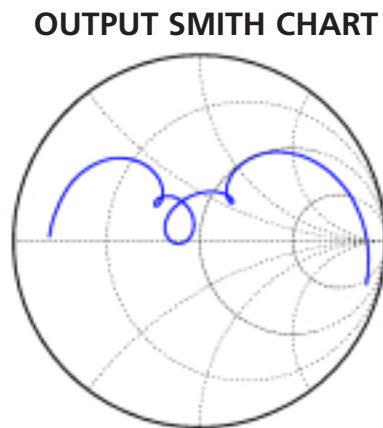
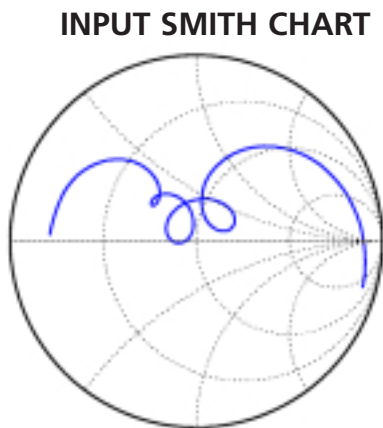
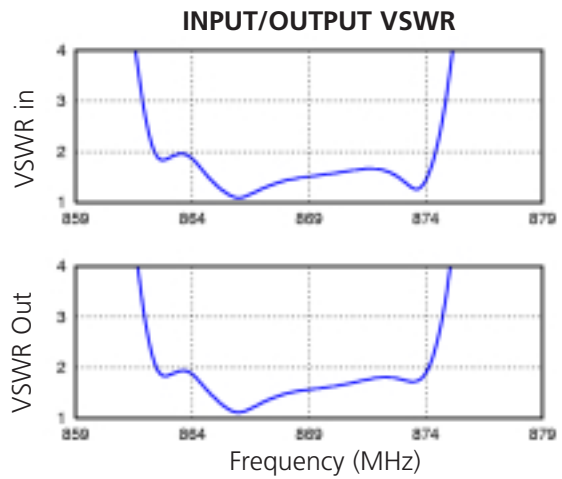
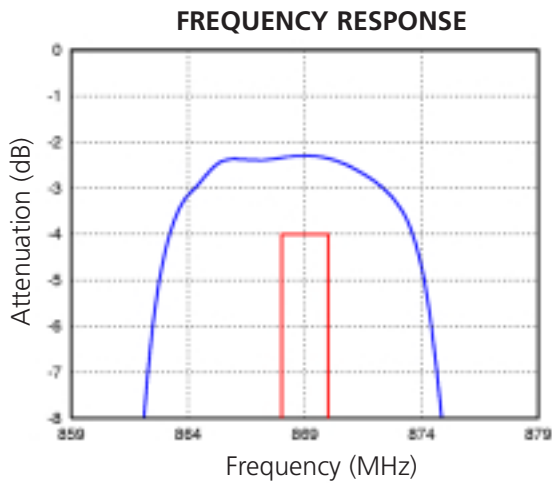
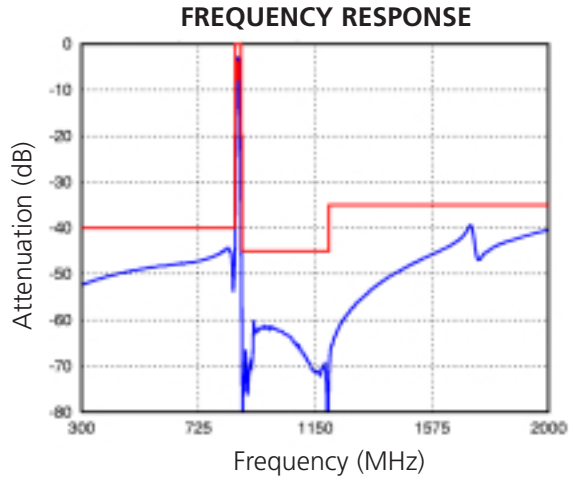
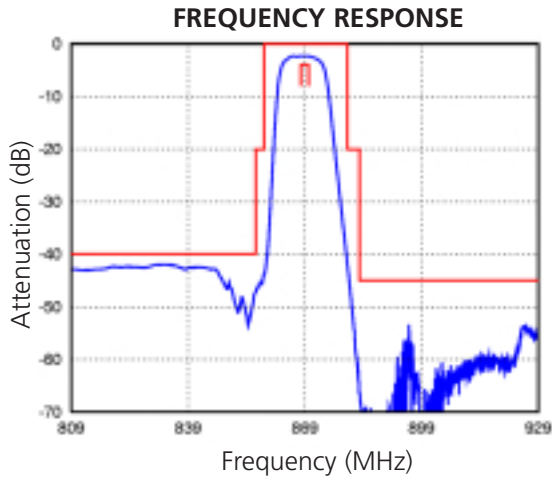


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*Preliminary Specification*  
*Typical S21 response*

The template indicated is linked to the specification over [-10; +60°C] temperature range

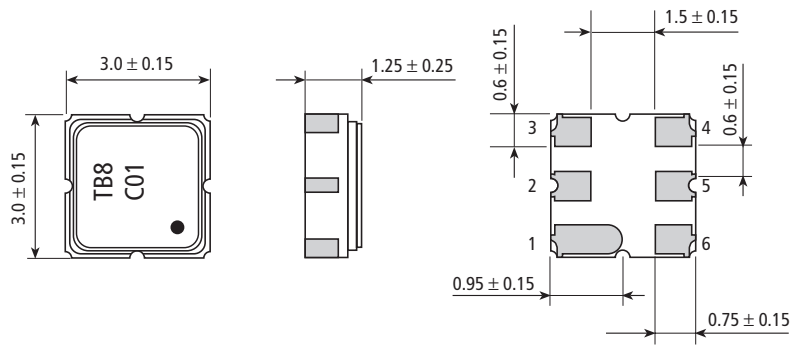


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### Package

All dimensions are in mm



	A	0.1mm/25.4mm
General Tolerance		±0.2mm