

# TMX S123

## SAW BANDPASS FILTER - CDMA450 – Tx-RF

### Specification

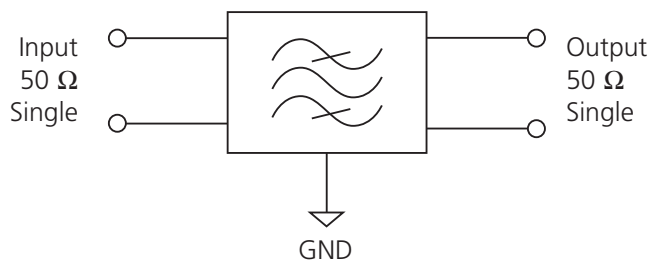
All performances are specified at room temperature [-10°C; +85°C]

		Minimum	Typical <sup>(1)</sup>	Maximum
Source impedance (single ended)	$\Omega$		50 <sup>(2)</sup>	
Load impedance (single ended)	$\Omega$		50 <sup>(2)</sup>	
Center frequency $F_c$	MHz		455	
Absolute attenuation				
300 kHz to 350 MHz	dB	30	35	
350 MHz to 445 MHz	dB	25	30	
462.5 MHz to 467.5 MHz	dB	30	40	
467.5 MHz to 2000 MHz	dB	25	30	
Maximum insertion loss 452.5 MHz – 457.5 MHz	dB		2.0	2.8
Input VSWR 452.5 MHz – 457.5 MHz at 21°C			1.5: 1	2.0: 1
Output VSWR 452.5 MHz – 457.5 MHz at 21°C			1.5: 1	2.0: 1
Power capacity 452.5 MHz – 457.5 MHz	dBm			25
Package type & size				
Length x Width	mm <sup>2</sup>		3.8 x 3.8	
Height	mm		1.1	1.375
Pin Out				
Input	2	Output	5	
Case Ground	1, 3, 4, 6	To Be Grounded	1, 3, 4, 6	

**Notes:**

- (1) Typical values are nominal performances at room temperature
- (2) No external matching circuit is required

**50  $\Omega$  / 50  $\Omega$  configuration**



# TMX S123

## SAW BANDPASS FILTER - CDMA450 – Tx-RF

### Specification

All performances are specified at room temperature [-30°C; +80°C]

		Minimum	Typical <sup>(1)</sup>	Maximum
Source impedance (single ended)	$\Omega$		50 <sup>(2)</sup>	
Load impedance (single ended)	$\Omega$		50 <sup>(2)</sup>	
Center frequency $F_c$	MHz		455	
Absolute attenuation				
300 kHz to 350 MHz	dB	30	35	
350 MHz to 445 MHz	dB	25	30	
462.5 MHz to 467.5 MHz	dB	30	40	
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Input VSWR 452.5 MHz – 457.5 MHz at 21°C			1.5: 1	2.0: 1
Output VSWR 452.5 MHz – 457.5 MHz at 21°C			1.5: 1	2.0: 1
Power capacity 452.5 MHz – 457.5 MHz	dBm			25
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Length x Width	mm <sup>2</sup>		3.8 x 3.8	
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**Notes:**

- (1) Typical values are nominal performances at room temperature
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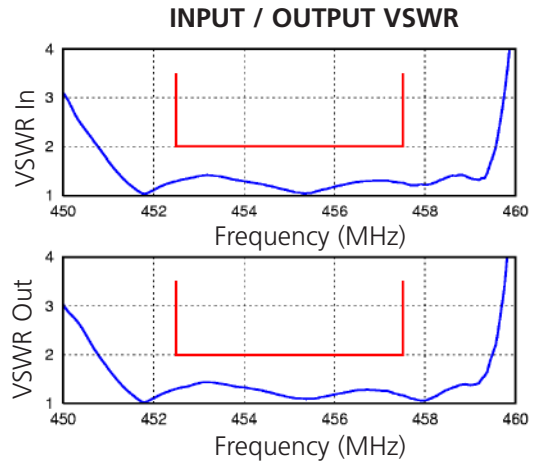
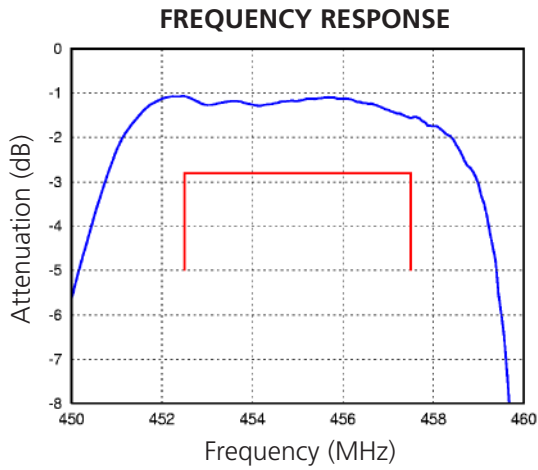
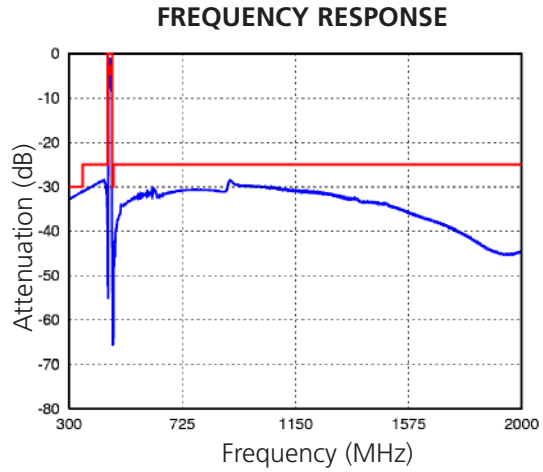
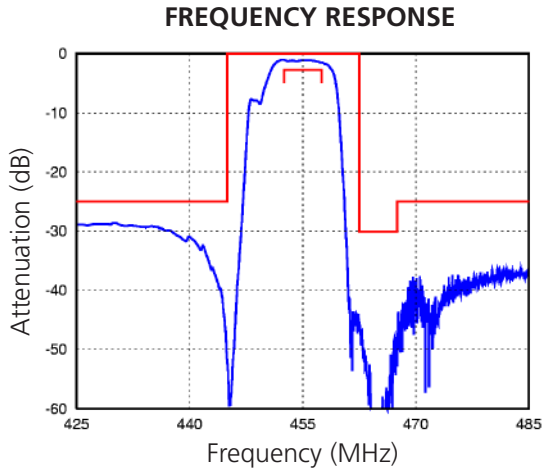
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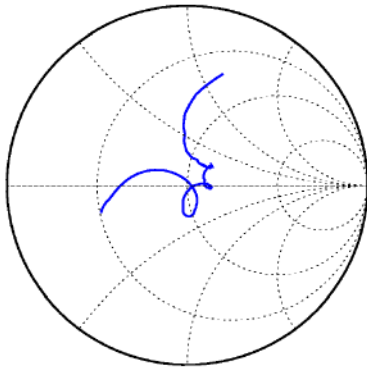
### Specification

#### TYPICAL S21 RESPONSE

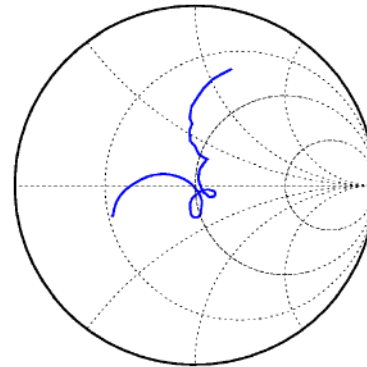
The template indicated is linked to the specification over  $[-10^{\circ}\text{C}; +85^{\circ}\text{C}]$  temperature range



**INPUT SMITH CHART**



**OUTPUT SMITH CHART**



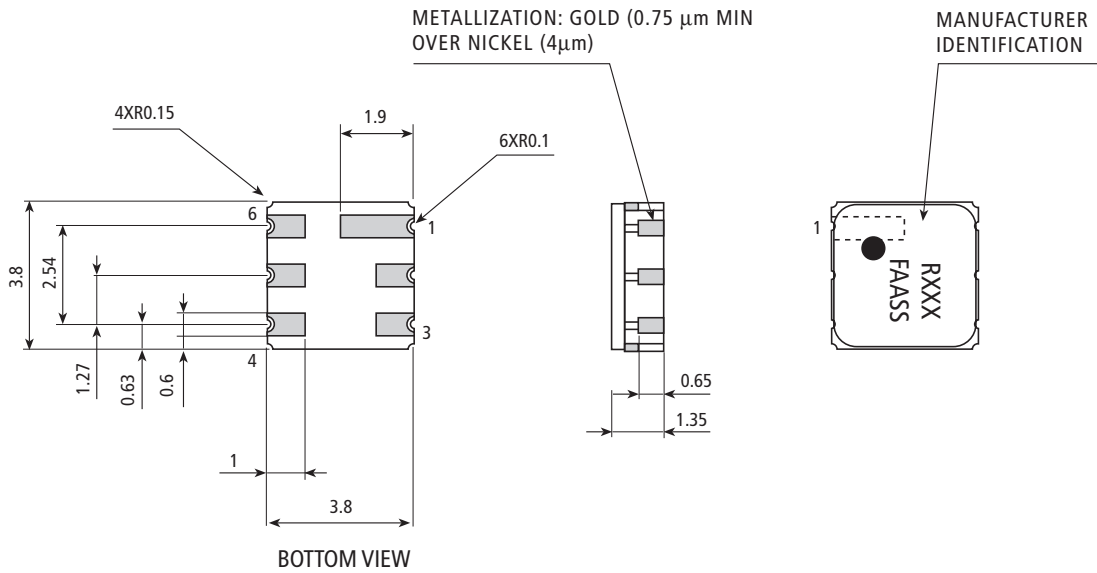
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## SAW BANDPASS FILTER - CDMA450 – Tx-RF

### Specification

### SMT PACKAGE

All dimensions are in mm



	A	0.1mm/25.4mm
General Tolerance		$\pm 0.2$ mm