



# TMX W405

SAW Bandpass Filter – US DVB-C  
*Preliminary Specification (Rev-1)*

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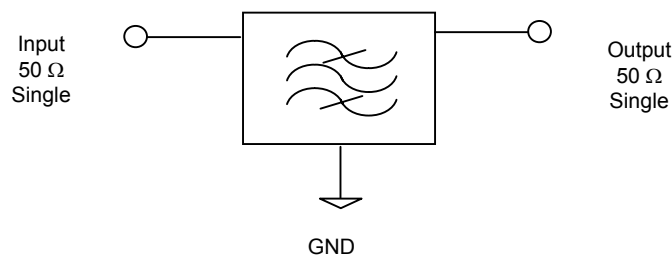
March 2<sup>nd</sup>, 2005

Electrical Parameters	Unit	Minimum	Typical <sup>(1)</sup>	Maximum
Source Impedance (balance drive)	$\Omega$	-	50 <sup>(2)</sup>	-
Load Impedance (balance drive)	$\Omega$	-	50 <sup>(2)</sup>	-
Center Frequency $f_0$	MHz	-	1090	-
<b>Relative Attenuation (relative to <math>I_{L_{min}}</math>)</b>				
840 MHz to 1015 MHz	dB	36	42	-
1015 MHz to 1060 MHz	dB	44	50	-
1120 MHz to 1150 MHz	dB	22	27	-
1150 MHz to 1265 MHz	dB	35	40	-
1265 MHz to 1340 MHz	dB	42	50	-
Minimum Insertion Loss in 1084 MHz - 1096 MHz	dB	3.5	4.0	5.5
Amplitude Ripple in 1084 MHz - 1096 MHz	dB	-	1.0	3.0
<b>Package type &amp; size</b>				
Length x Width	mm <sup>2</sup>	-	3.8 x 3.8	-
Height	mm	-	1.3	1.5
<b>Pin Out</b>				
Input	1, 2	Output	5, 6	
Case Ground	4, 8	To Be Grounded	3, 7	

**Notes :**

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

### 50 $\Omega$ / 50 $\Omega$ Configuration



**Maximum Ratings**

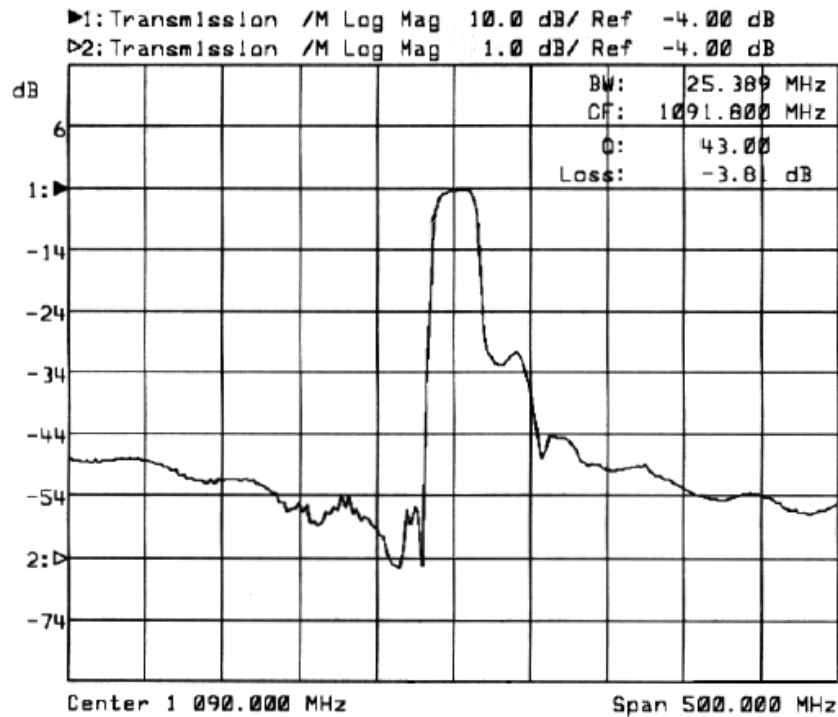
Rating	Unit	Value
Operating Temperature Range $T_A$	-40 to +85	$^{\circ}\text{C}$
Storage Temperature Range	-40 to +85	$^{\circ}\text{C}$
Input Power Level	0	dBm
DC Voltage	0	V

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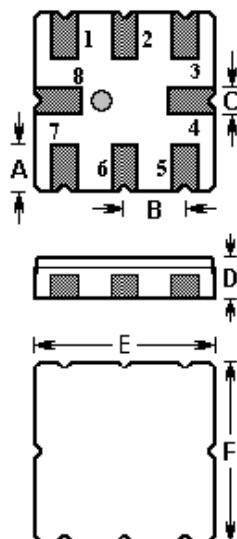
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## TYPICAL S21 RESPONSE



## PACKAGE DRAWING



Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	1.00	D	1.50
B	1.27	E	3.80
C	0.60	F	3.80