



# 140 MHz Saw Filter

## Part Number: AM140S254



Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	139.965	140.0	140.035
Insertion Loss at Fo	dB	-	21.0	24.0
Phase Linearity	Deg	-	1.0	7.00
Group Delay Variation	nsec	-	55	150
Absolute Delay at Fo	usec	-	3.616	-
Bandwidth at -1.0 dB	MHz	0.14	0.18	-
Bandwidth at -3.0 dB	MHz	0.25	0.31	-
Bandwidth at -40.0 dB	MHz	-	0.84	0.90
Ultimate Rejection	dB	40	50	-
Ambient Temperature	°C	-	25	-
Substrate Material	Qz			

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (Single Ended) <sub>1</sub>	Ω	-	50	-
Load Impedance (Single Ended) <sub>1</sub>	Ω	-	50	-
Package Size and Type	27.2 x 12.0 x 5.3 mm E			

**Notes:** (1) With Marking Network (Ref. Testing Environment Circuit as shown below). Those impedances could be modified with different impedance values and/or structures, if necessary.

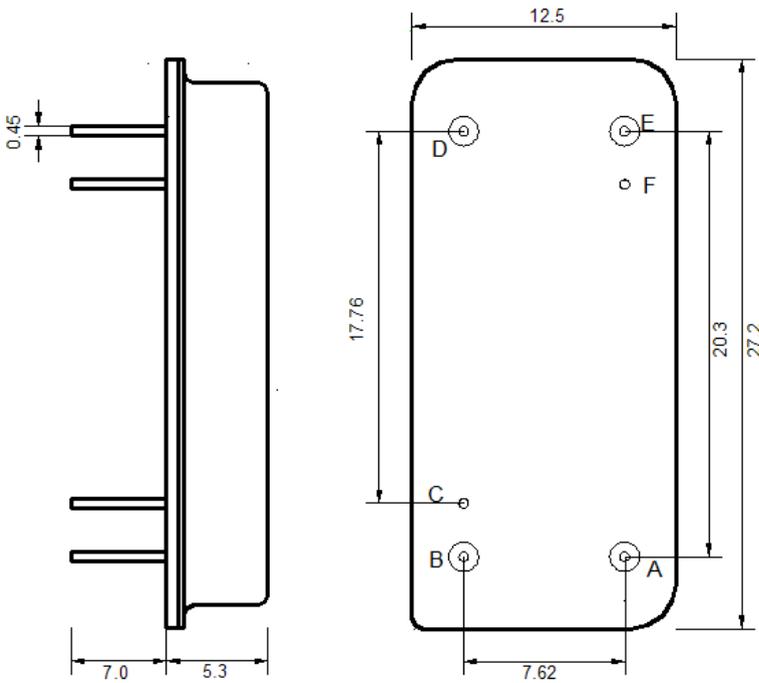


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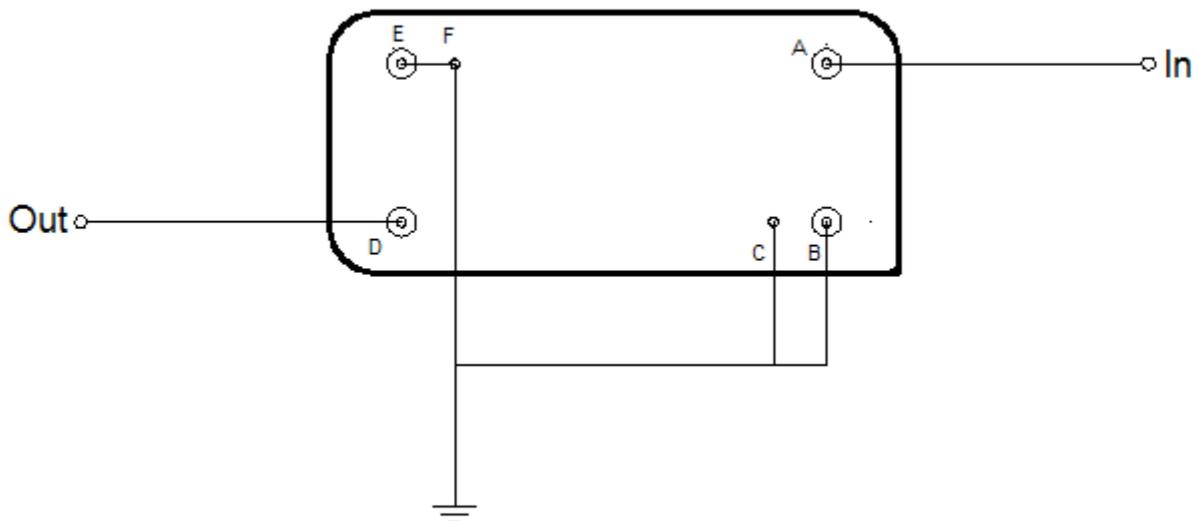


### Outline Drawing:



Pin Description	
Ground	B C E F
Input	A
Output	D

### Testing Environment:



Source/Load Impedance = 50 Ω

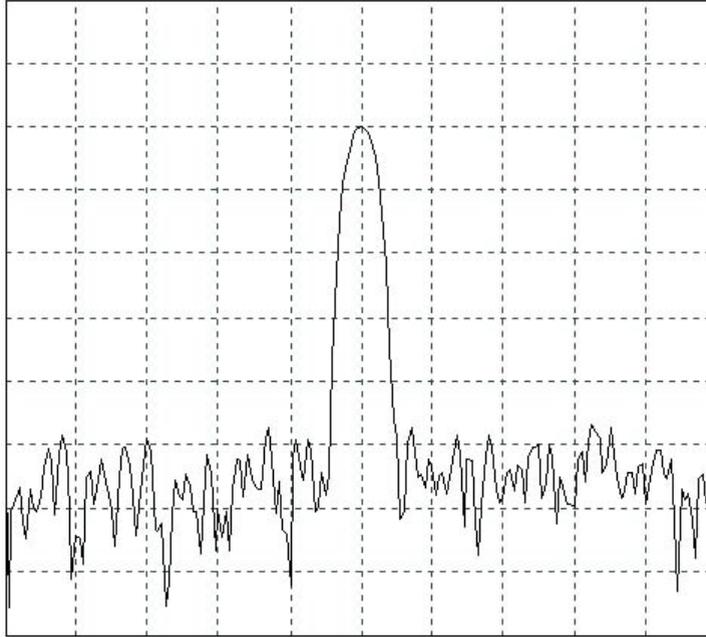


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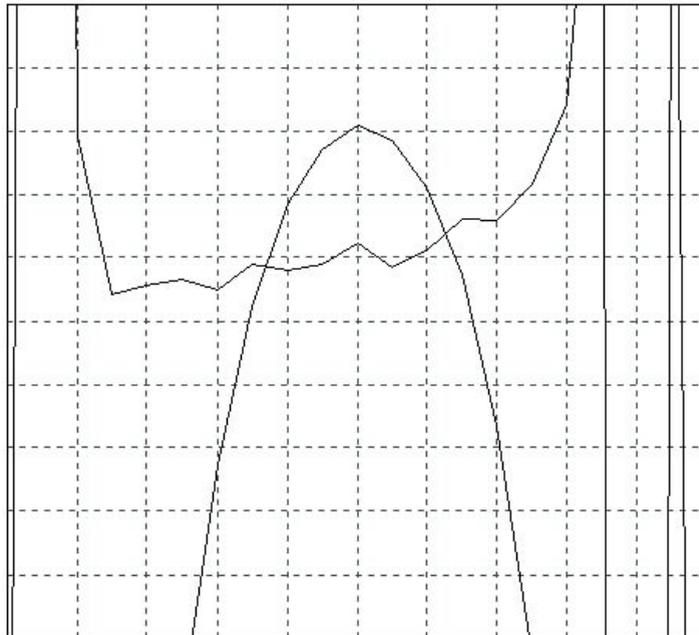
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### Frequency Response:



Horizontal: 1.0 MHz/Div  
Vertical: 10 dB/Div



Horizontal: 0.1 MHz/Div  
Vertical: 1.0 dB/Div  
Vertical: 100ns/Div