

SAW Filter 1575.42MHz for GPS - Low loss
Part No: MA04851

Model: TA0176A
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC voltage: 5 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +100°C

B. ELECTRICAL CHARACTERISTICS:

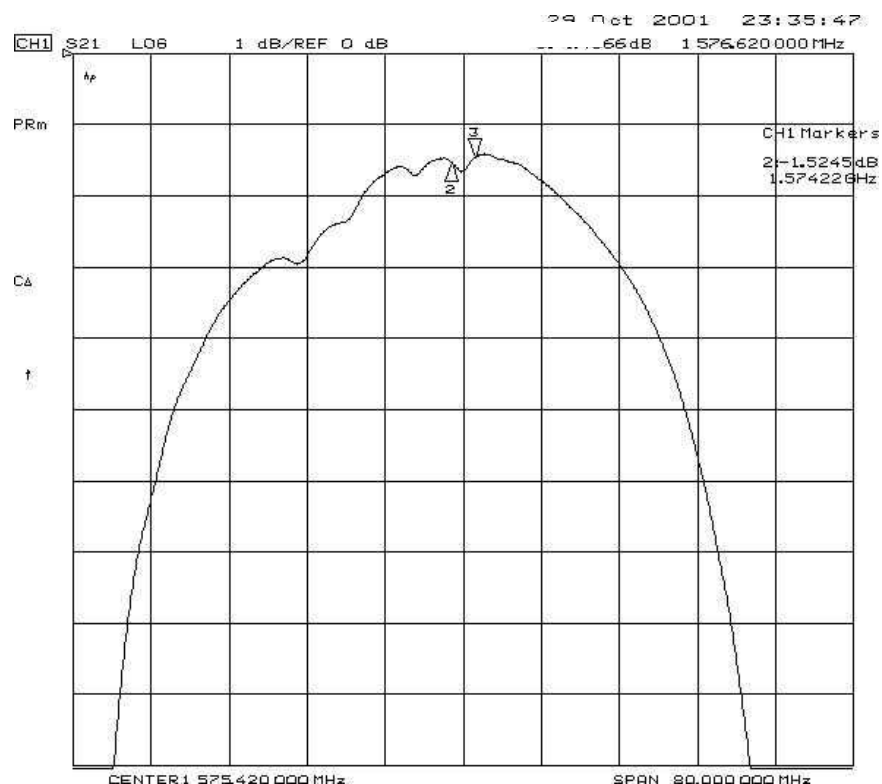
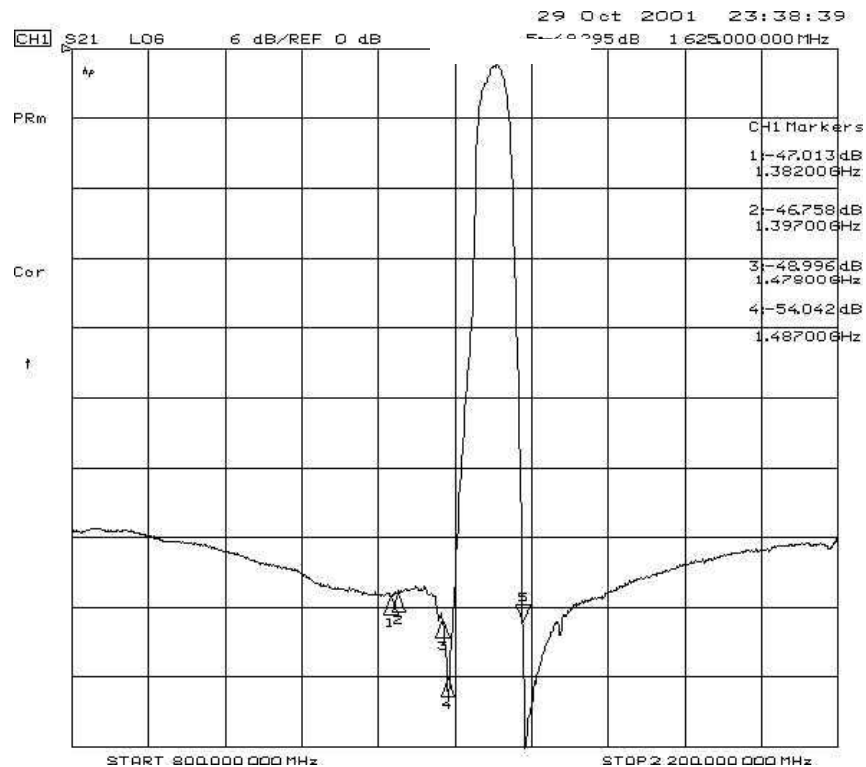
Item	Min.	Typ.	Max.
Center frequency Fc (dB)	-	1575.42	-
Insertion loss 1574.22 ~ 1576.62MHz IL (dB)	-	1.5	2.2
Amplitude ripple (p-p) 1574.22 ~ 1576.62MHz (dB)	-	0.15	1.0
Attenuation (Reference level from 0dB)			
DC ~ 1382MHz (dB)	37	40	-
1382 ~ 1397MHz (IF Image frequency) (dB)	40	47	-
1397 ~ 1478MHz (dB)	40	45	-
1478 ~ 1487MHz (Local frequency) (dB)	40	47	-
1487 ~ 1500MHz (dB)	30	52	-
1625 ~ 1640MHz (dB)	30	49	-
1640 ~ 2000MHz (dB)	38	42	-
2000 ~ 2800MHz (dB)	33	41	-
2800 ~ 3000MHz (dB)	30	34	-
VSWR within 1574.22 ~ 1576.62MHz	-	1.1	2.0
Source impedance Z _S (Ω)	-	50	-
Load impedance Z _L (Ω)	-	50	-

Note: No matching network required for operation at 50Ω

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C. FREQUENCY CHARACTERISTICS:

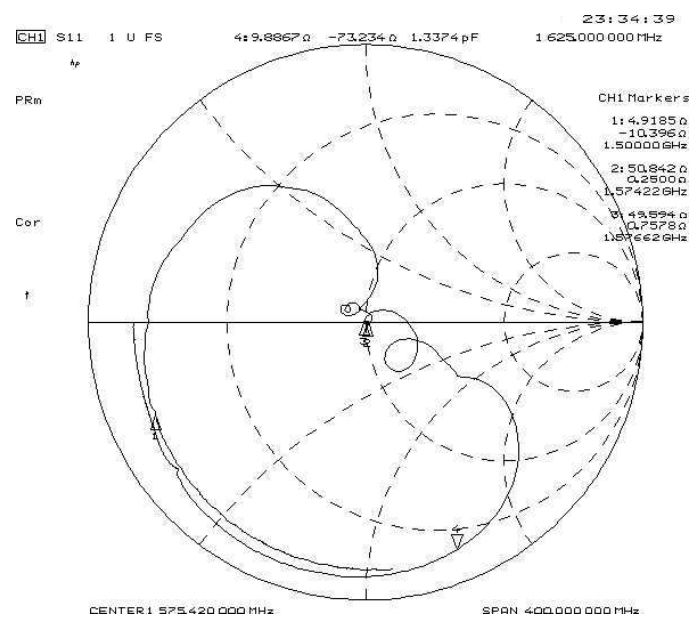
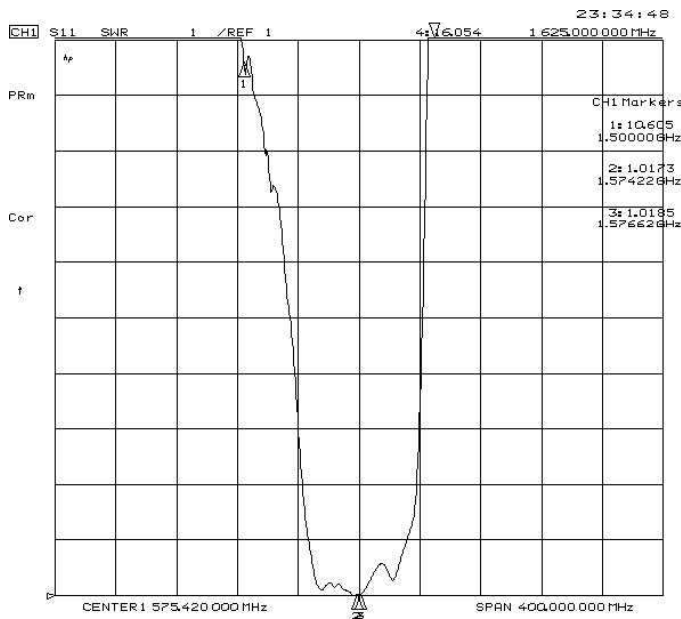


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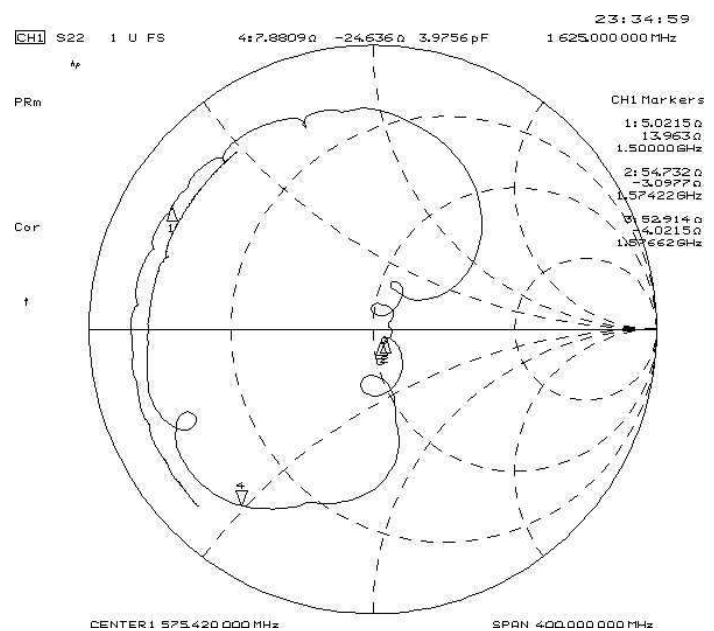
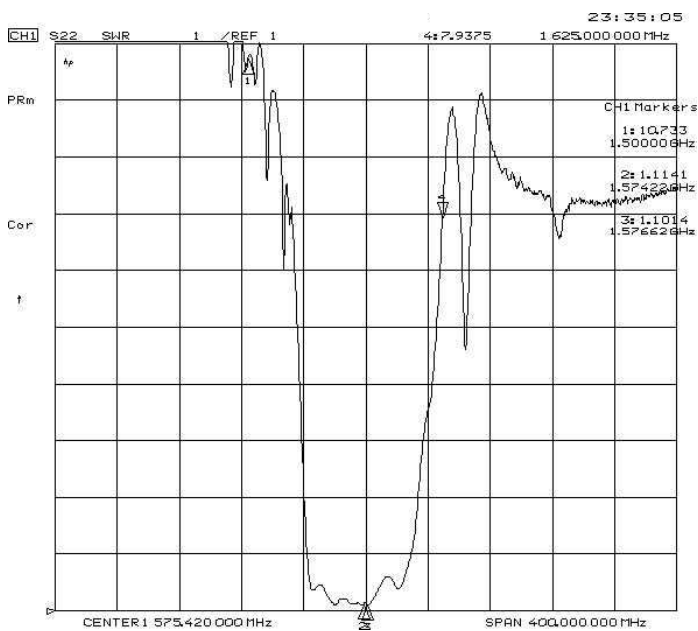
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Reflections Functions

S11 VSWR



S22 VSWR

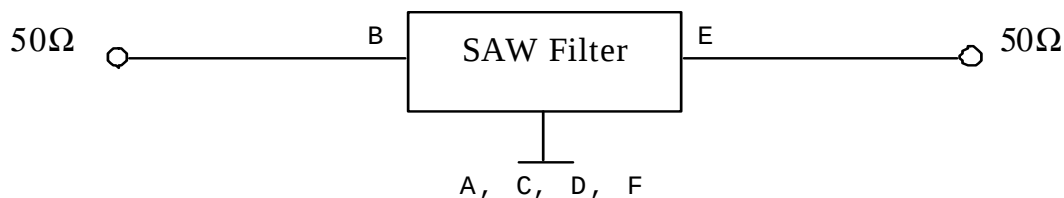


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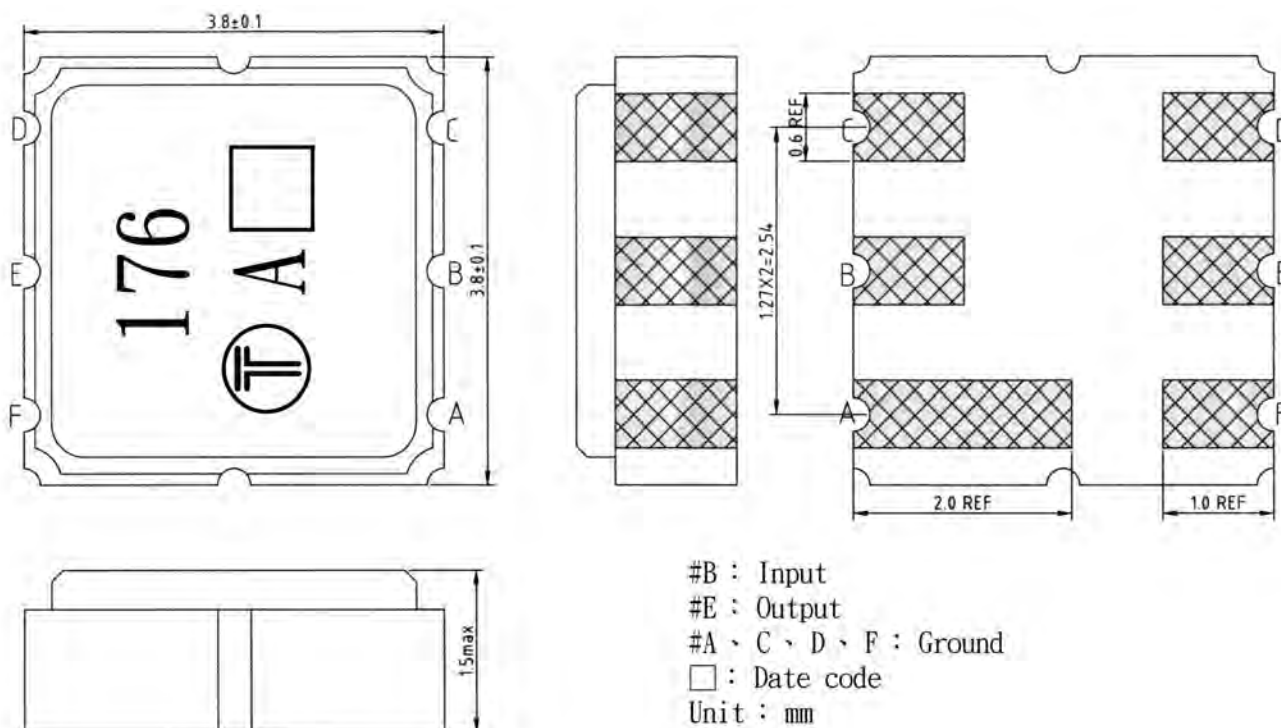
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D. MEASUREMENT CIRCUIT:

HP Network analyzer



E. OUTLINE DRAWING:



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