

SAW Filter 1575.42 MHz for GPS ~ Low Loss ~

Model: TA1575IG

Part No: **MA03368**

REV. NO.: 3

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC voltage: 0 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 ~1576.62 MHz IL (dB)	-	1.5	2.0
Amplitude ripple (p-p) 1574.22 ~ 1576.62 MHz (dB)	-	0.15	1.0
Attenuation (Reference level from 0 dB)			
DC ~ 1382 MHz (dB)	37	40	-
1382 ~ 1397 MHz (IF Image frequency) (dB)	40	47	-
1397 ~ 1478 MHz (dB)	40	45	-
1478 ~ 1487 MHz (Local frequency) (dB)	40	47	-
1487 ~ 1500 MHz (dB)	30	52	-
1625 ~ 1640 MHz (dB)	30	49	-
1640 ~ 2000 MHz (dB)	38	42	-
2000 ~ 3000 MHz (dB)	33	38.5	-
VSWR within 1574.22 ~1576.62 MHz	-	1.1	2.0
Source impedance Zs (Ω)	-	50	-
Load impedance ZL (Ω)	-	50	-

Note1. No matching network required for operation at 50 Ω

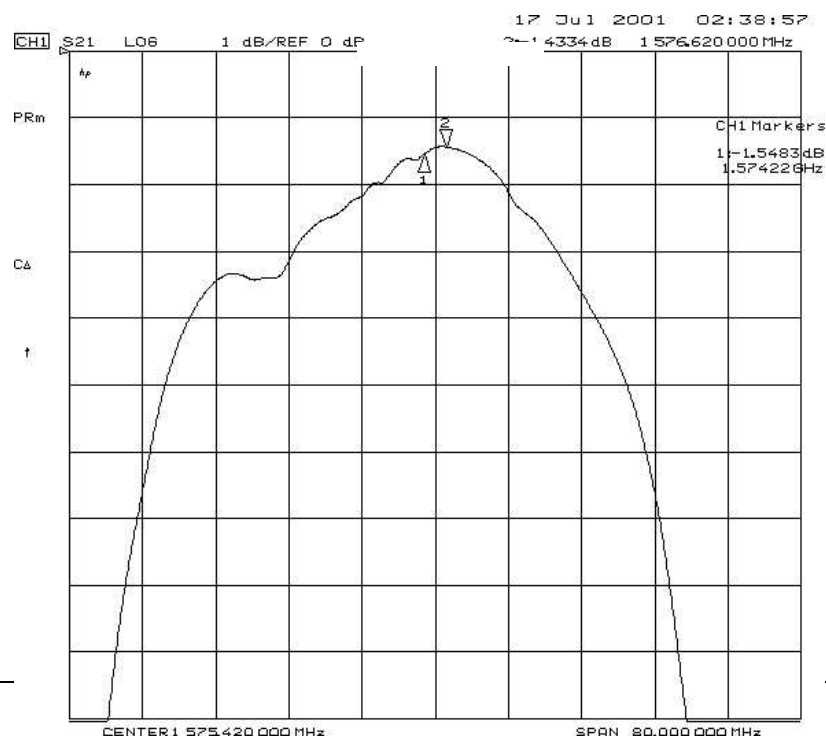
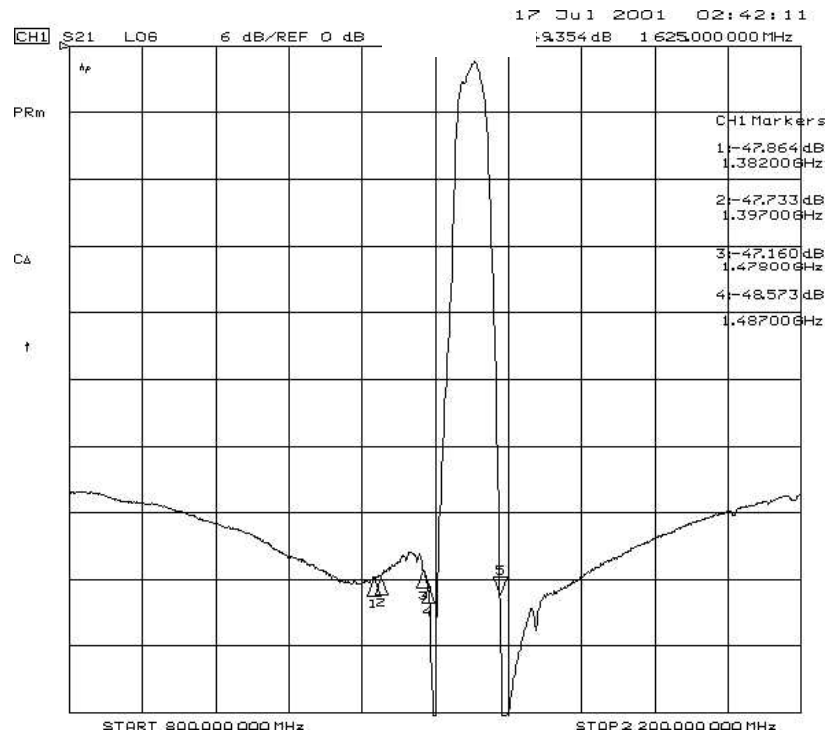
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C. Frequency Characteristics:



Tel: +44 1460 256 100
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Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

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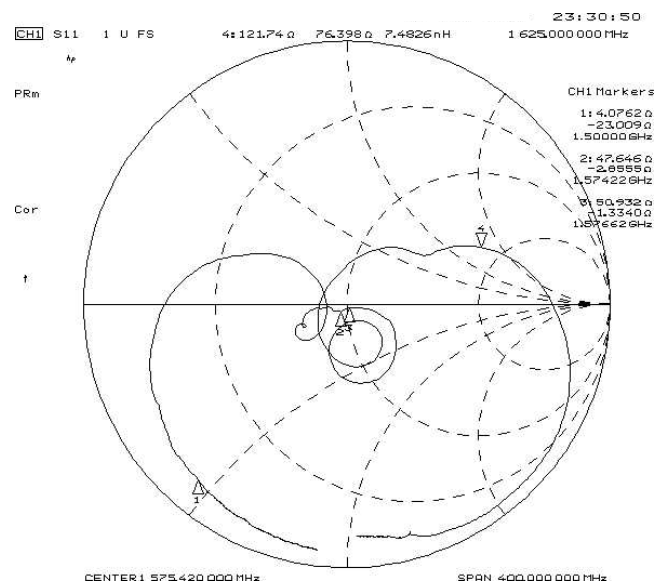
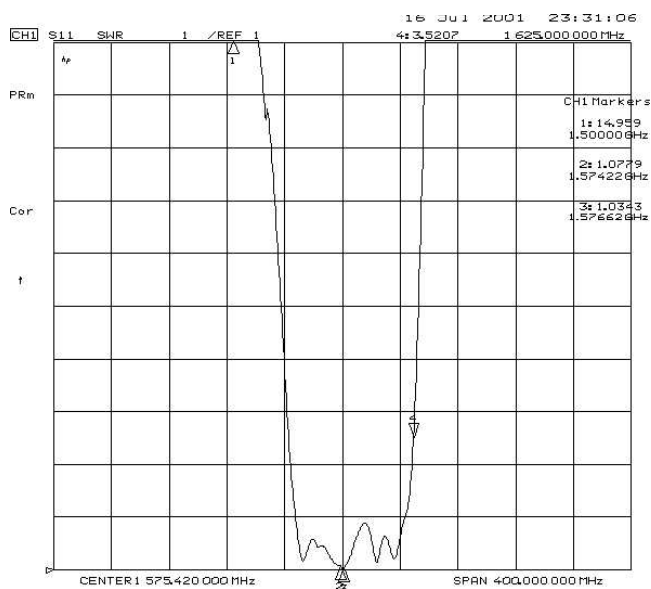
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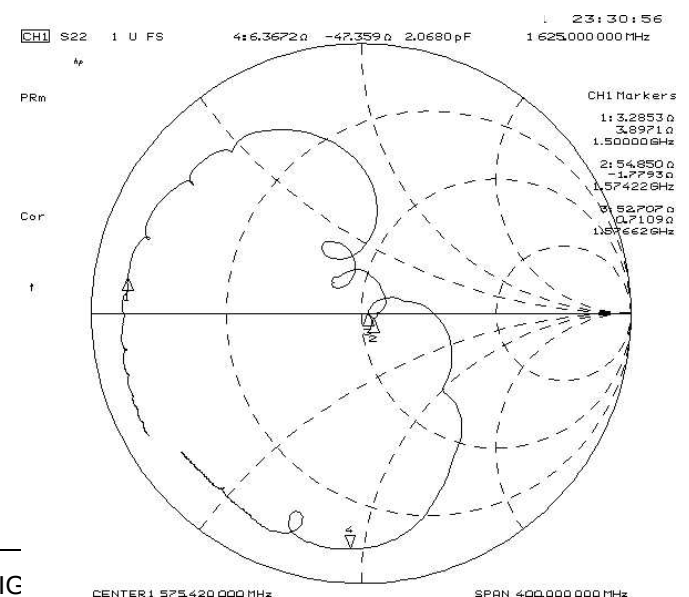
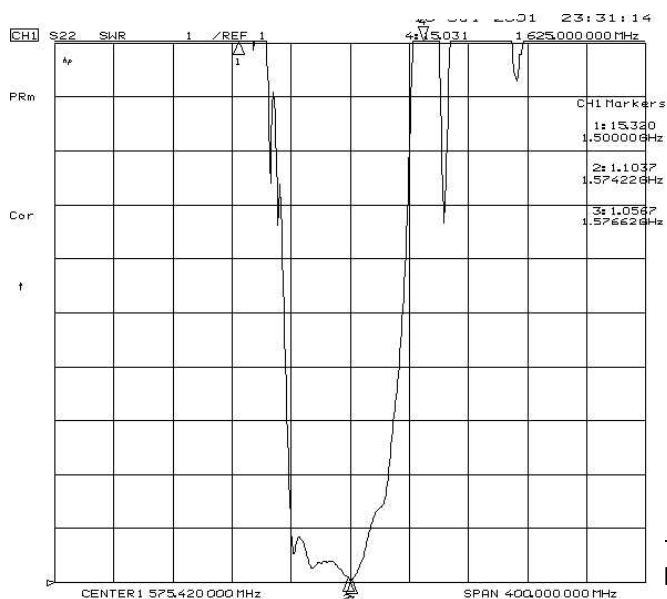
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D. Reflections Functions:

S11 VSWR



S22 VSWR

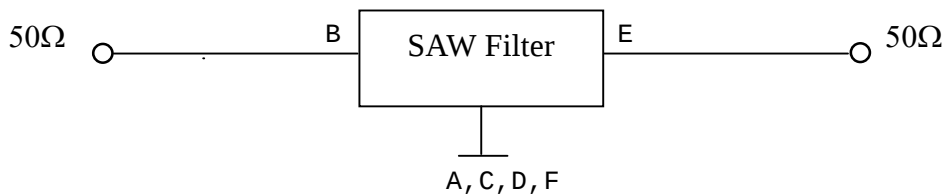


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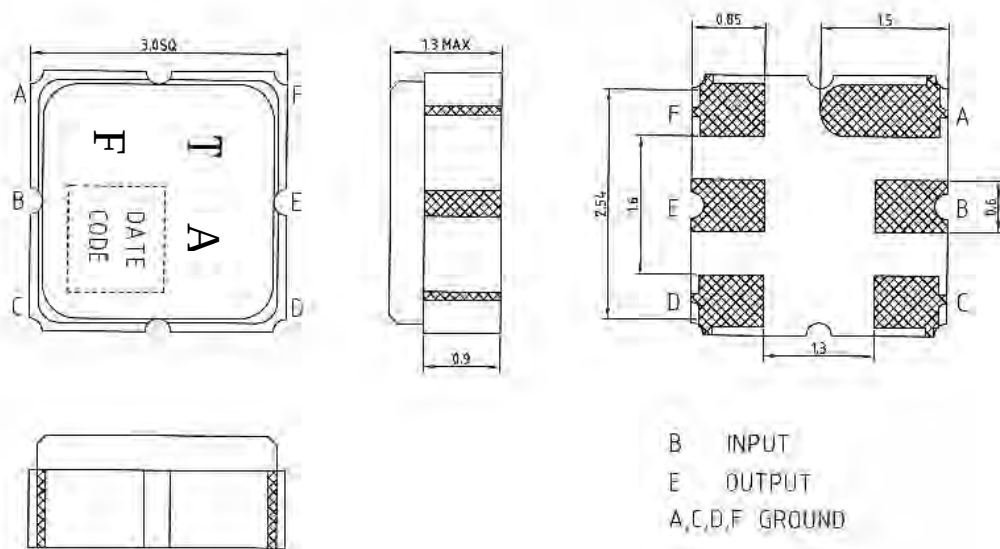
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E. MEASUREMENT CIRCUIT:

HP Network analyzer



E. OUTLINE DRAWING:



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F. MECHANICAL & ENVIRONMENTAL CHARACTERISTICS:

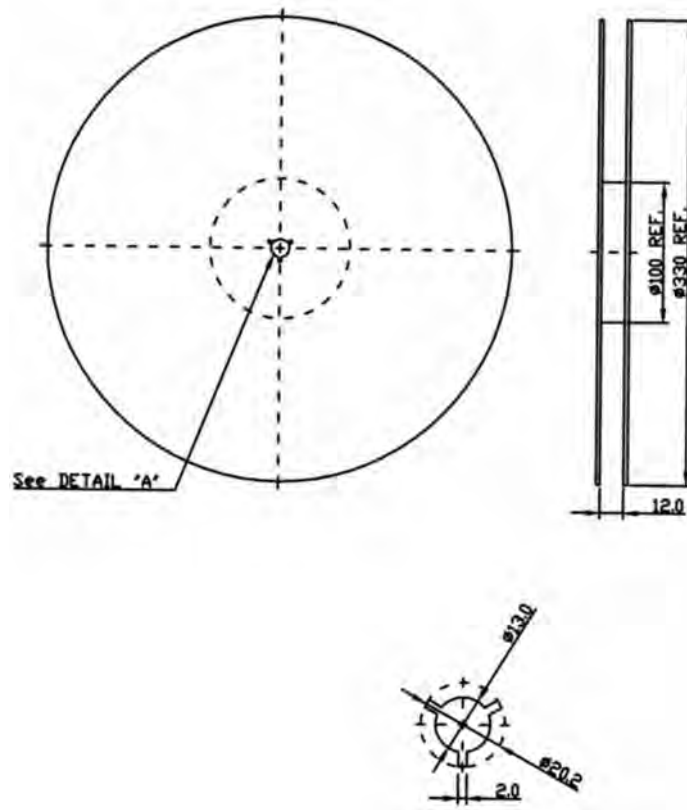
Test Item	Condition of Test	Requirements
Shock (Drop test)	random free drops 3 times from height of 1.0 meter onto concrete floor.	The specimens shall meet the electrical specifications
Vibration	Total peak amplitude : 1.5mm Vibration frequency : 10 to 55 Hz Sweep period : 1.0 minute Vibration directions : 3 mutually perpendicular Duration : 2 hr / direc.	
Solderability (solder heat)	immersed pad in soldering bath at 245±5°C for 5±0.5 seconds.	75% or more of the immersed surface shall be covered with solder
Temperature Characteristics	Specimens shall be measured within -30°C to +85°C temperature range	The specimens shall meet the electrical specifications
Dry heat (Aging test)	Temperature : 125 ± 2 °C Duration : 250 hours	
Cold resistance	Temperature : -40 ± 3 °C Duration : 96 hours	
Thermal Shock	Heat cycle conditions -55 C 25 C 85 C (30 min) (5 min) (30 min) Cycle time : 5 times	

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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

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