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**Golledge Electronics Ltd**
Eaglewood Park, Ilminster
Somerset, TA19 9DQ, UK

# SAW Filter 1583.0MHz — Model: TA1661B

# Part No: MP06782 — Rev No: 1

## A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 0V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

**AEC-Q200 compliant**

**E**lectrostatic **S**ensitive **D**evice (**ESD**)

## B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) : Zs = 50 Ω

Terminating load impedance (single) : $Z_L$ = 50 Ω

| Item | Unit | 25±°2C | Type. | -40 ~ +85°C |
|---|---|---|---|---|
| **Center Frequency Fc** | MHz | - | 1583 | - |
| **Insertion Loss** (1559.1~1563.1 MHz) **IL** | dB | 1.9max | 1.8 | 2.1max |
| **Insertion Loss** (1573.42~1577.42 MHz) **IL** | dB | 1.5max | 1.4 | 1.6max |
| **Insertion Loss** (1597.55~1605.89 MHz) **IL** | dB | 1.8max | 1.7 | 2.1max |
| **VSWR** (1559.1~1563.1 MHz) | | 1.5max | 1.4 | 1.8max |
| **VSWR** (1573.42~1577.42 MHz) | | 1.7max | 1.6 | 2.0max |
| **VSWR** (1597.55~1605.89 MHz) | | 1.7max | 1.6 | 1.9max |
| **Amplitude ripple** | | | | |
| (1559.1~1563.1 MHz) | dB | 0.6max | 0.5 | 0.8max |
| (1573.42~1577.42 MHz) | dB | 0.3max | 0.2 | 0.5max |
| (1597.55~1605.89 MHz) | dB | 0.5max | 0.3 | 0.6max |
| **Attenuation** | | | | |
| 100 ~ 824 MHz | dB | 44min | 46 | 40min |
| 824 ~ 925 MHz | dB | 44min | 46 | 40min |
| 1427 ~ 1463 MHz | dB | 43min | 45 | 40min |
| 1710 ~ 1785 MHz | dB | 38min | 40 | 36min |
| 1850 ~ 1980 MHz | dB | 38min | 40 | 36min |
| 2400 ~ 2570 MHz | dB | 38min | 40 | 36min |
| 2570 ~ 3000 MHz | dB | 35min | 40 | 33min |
| Package size | mm | 1411 | | |

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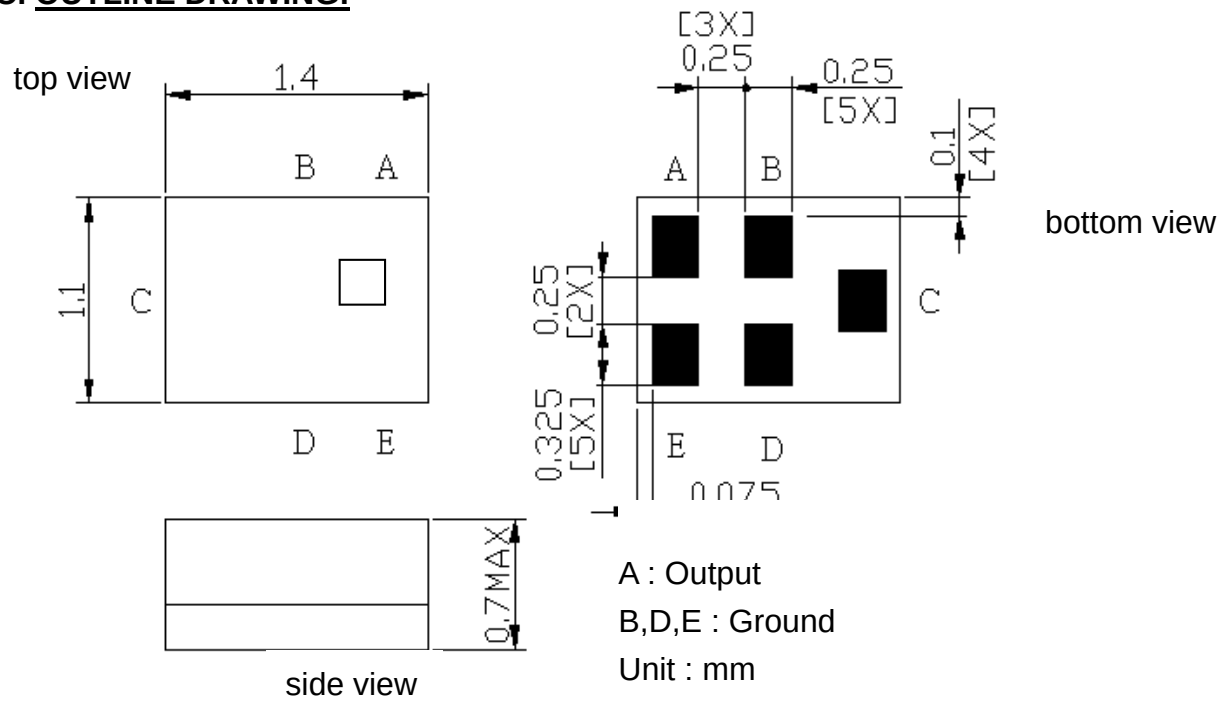
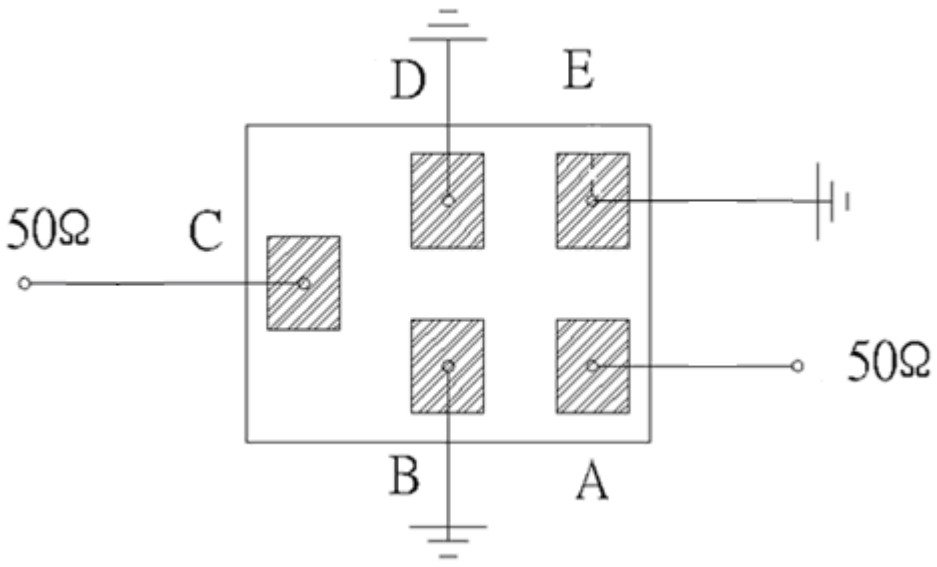
**Part No: MP06782** **Rev No: 1**

## C. OUTLINE DRAWING:




A : Output
B,D,E : Ground
Unit : mm

## D. MEASUREMENT CIRCUIT:



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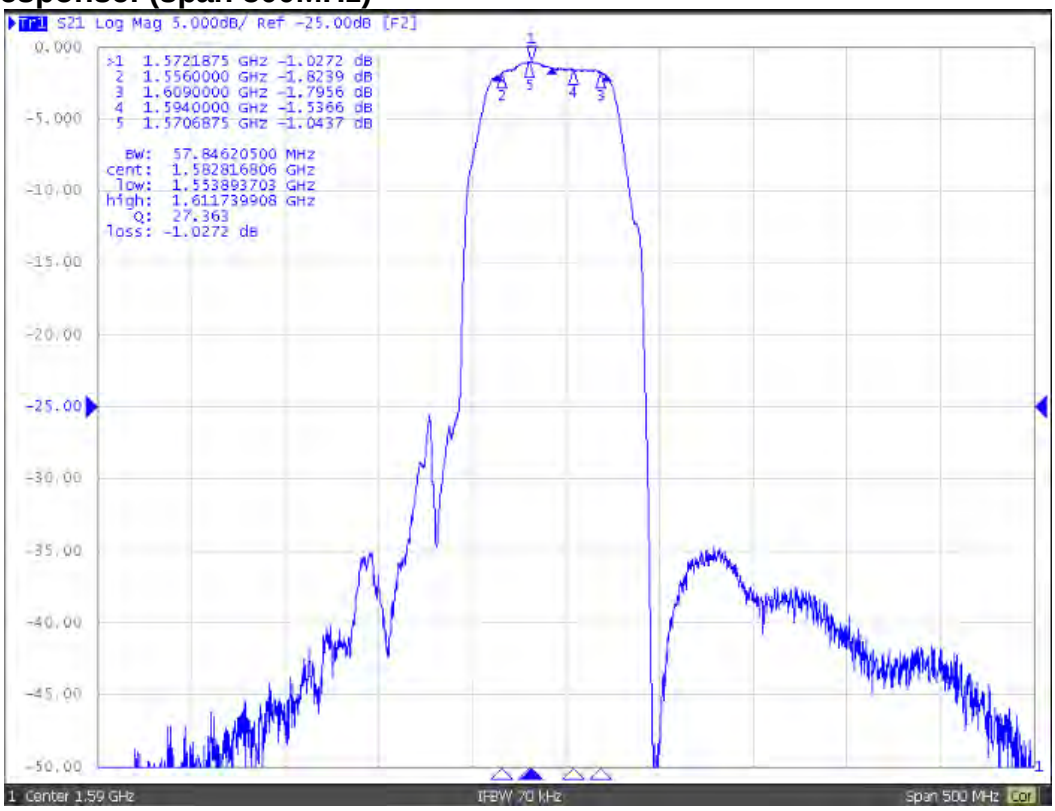
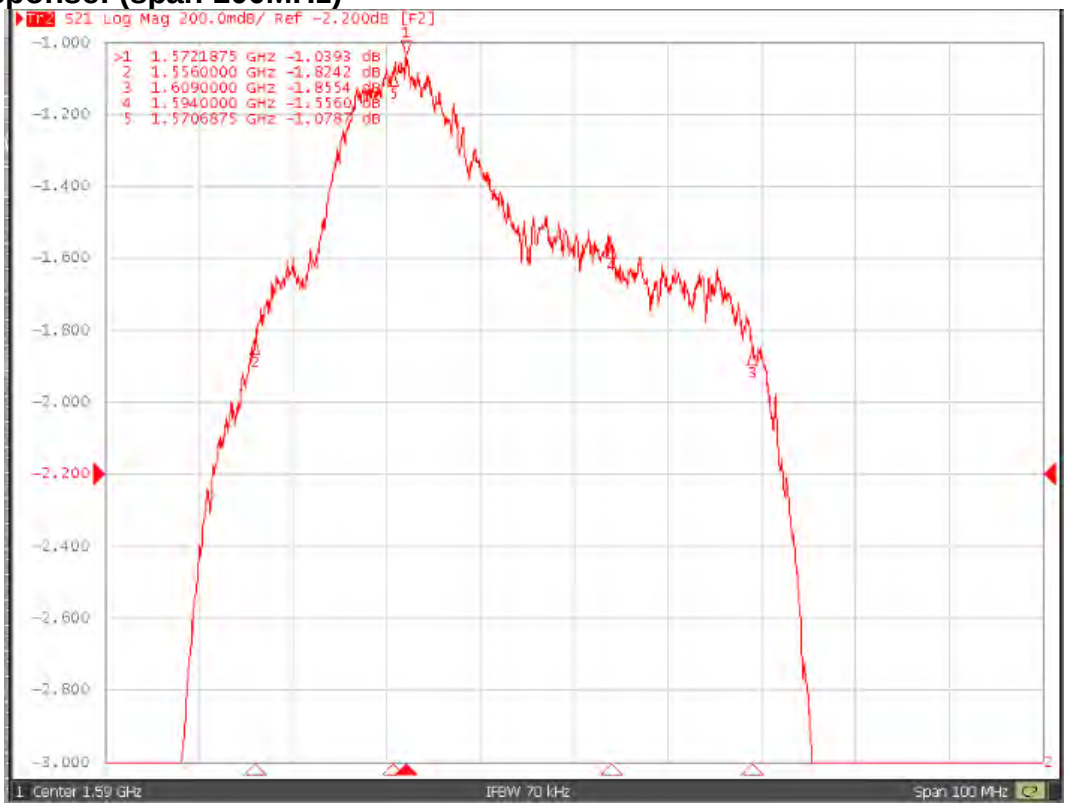
## E. Frequency Characteristics:

### S21 response: (span 500MHz)




### S21 response: (span 100MHz)



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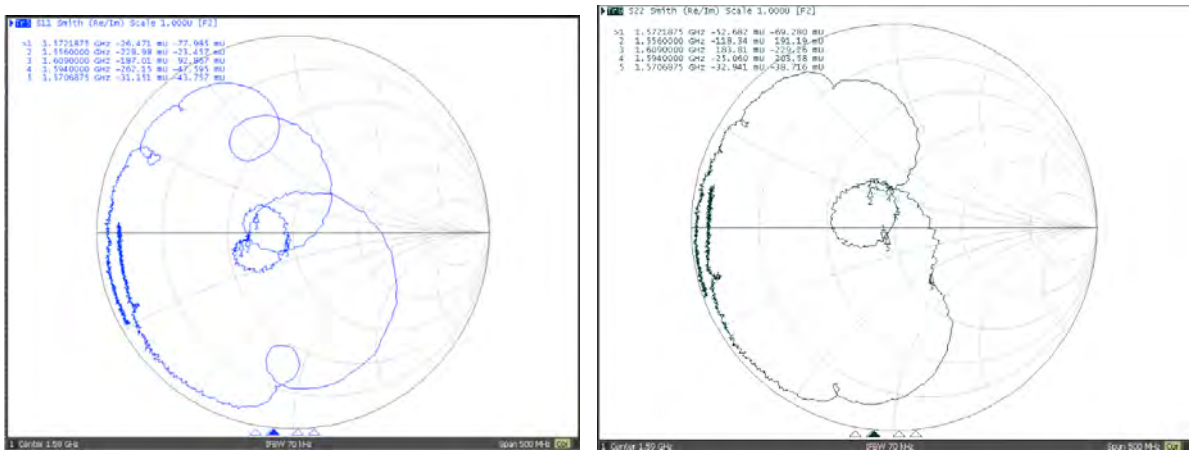
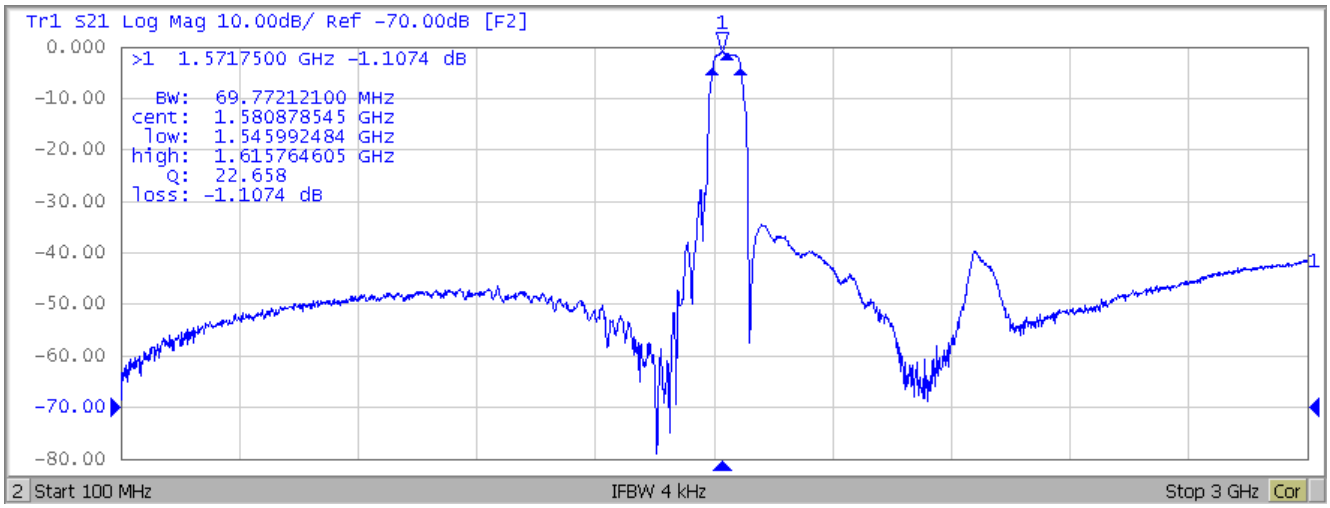
## Part No: MP06782 — Rev No: 1

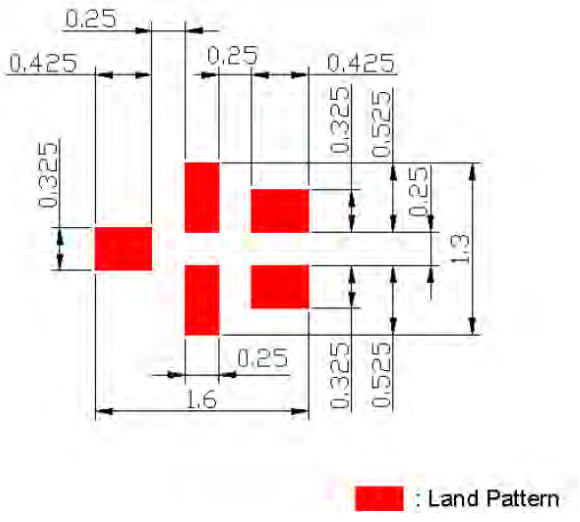
### S11/S22 response：



### S21 response: (span 3GHz)




### F. PCB Footprint:



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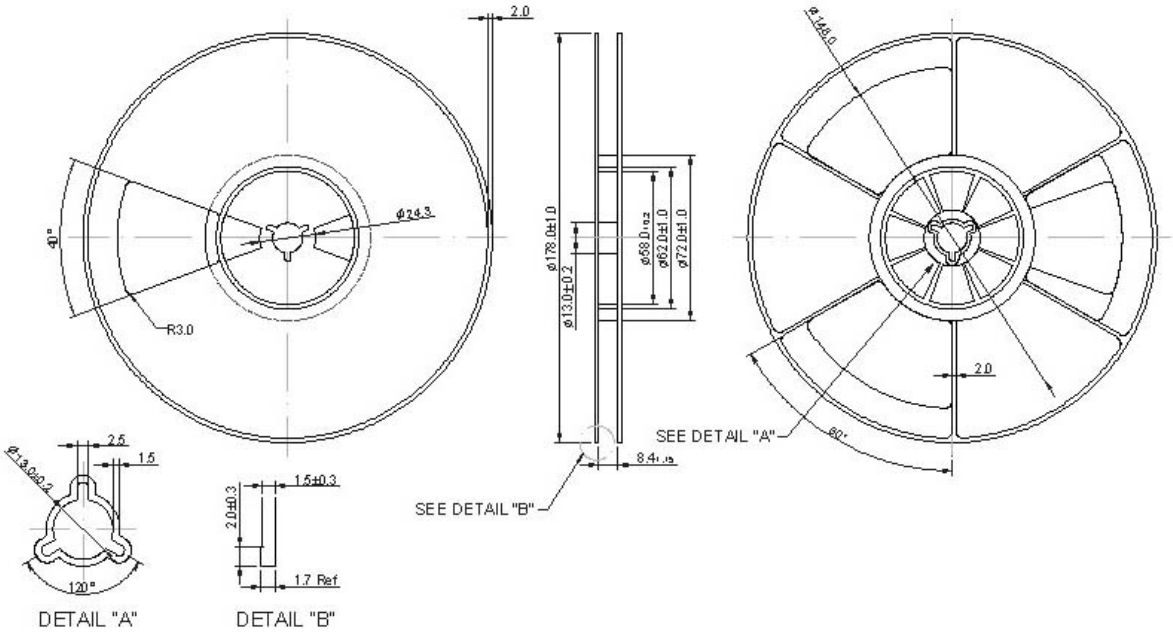
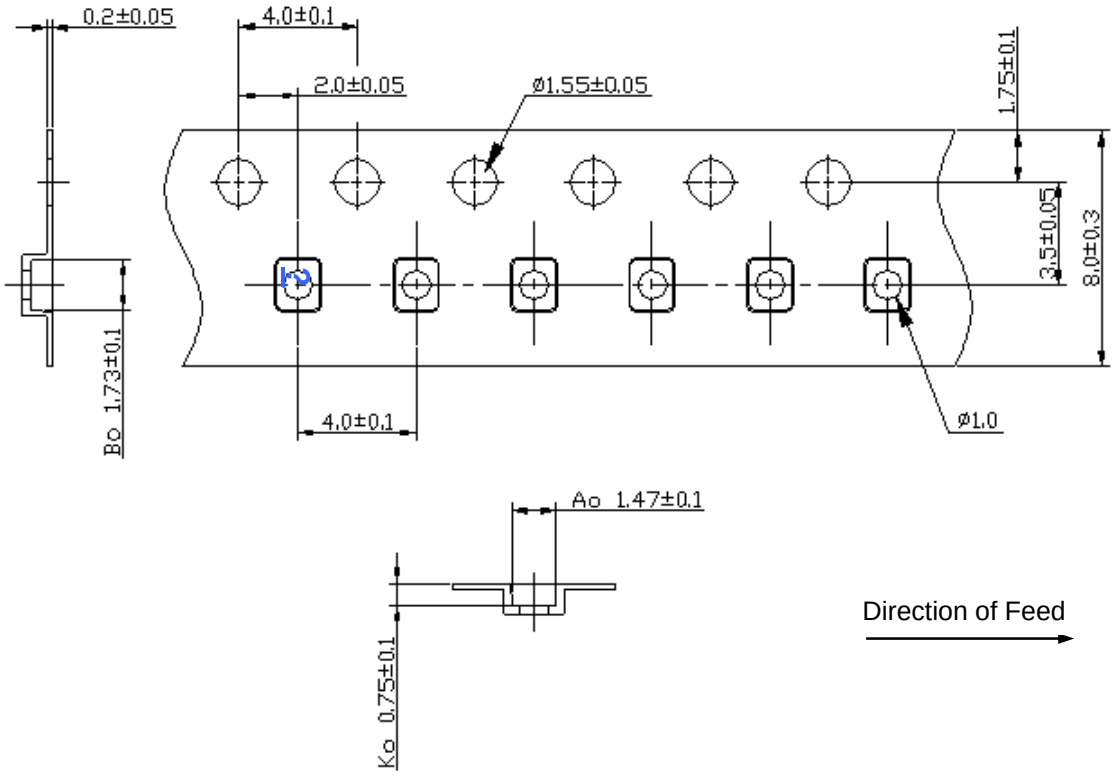
## G. PACKING:

1. REEL DIMENSION




2.TAPE DIMENSION



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## H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10sec).
4. Time : 2 times.