



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

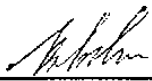
Product Description: SAW Filter 1590.155 MHz 31.47MHz BW SMD 1.4X1.1 mm

TST Part No.: TA1500A

Customer Part No.: _____

| |
|-----------------------------|
| Customer signature required |
| Company: _____ |
| Division: _____ |
| Approved by : _____ |
| Date: _____ |

Checked by: _____ Bob Chau 

Approved by: _____ Bob Chau 

Date: _____ 03, 25, 2013

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

SAW Filter 1590.155MHz

MODEL NO.:TA1500A

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 13 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

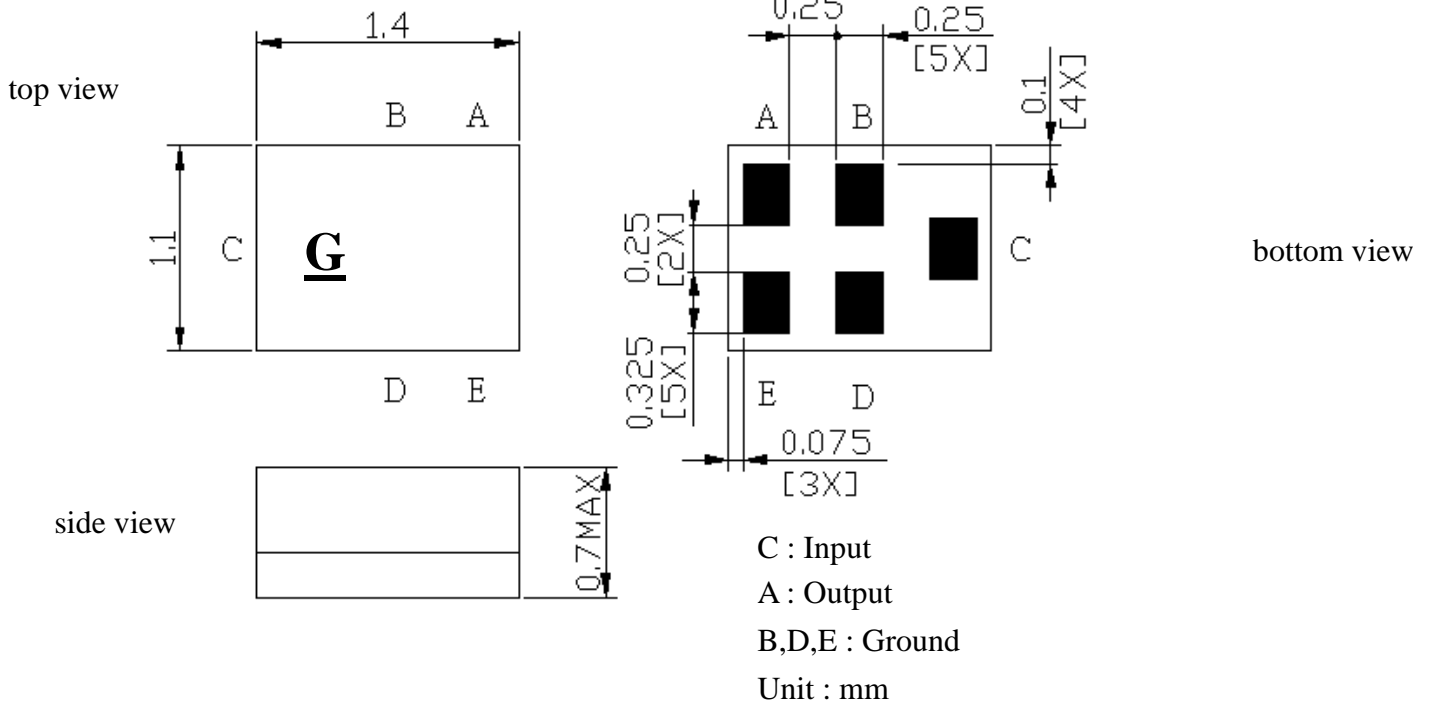
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single-ended) : $Z_s = 50$

Terminating load impedance (single-ended) : $Z_L = 50$

| Item | Unit | Min. | Typ. | Max. | Note |
|---|-----------|------|------|----------|------|
| Center Frequency | Fc | MHz | - | 1590.155 | - |
| Insertion Loss (1574.42~1576.42 MHz) | IL | dB | - | 0.85 | 1.3 |
| Insertion Loss (1597.55~1605.89 MHz) | IL | dB | - | 0.95 | 1.3 |
| Amplitude ripple (1574.42~1605.89 MHz) | | dB | - | 0.3 | 0.6 |
| Group Delay ripple (1574.42~1605.89 MHz) | | ns | - | 8 | 15 |
| VSWR (1574.42~1605.89 MHz) | | | - | 1.3 | 2.1 |
| Attenuation (Reference level from 0 dB) | | | | | |
| D.C.~915 MHz | | dB | 18 | 21 | - |
| 915~1525 MHz | | dB | 17 | 19 | - |
| 1660~4500 MHz | | dB | 17 | 20 | - |
| 4500~6000 MHz | | dB | 12 | 32 | - |
| Temperature Coefficient of Frequency | | ppm/ | - | -36 | - |

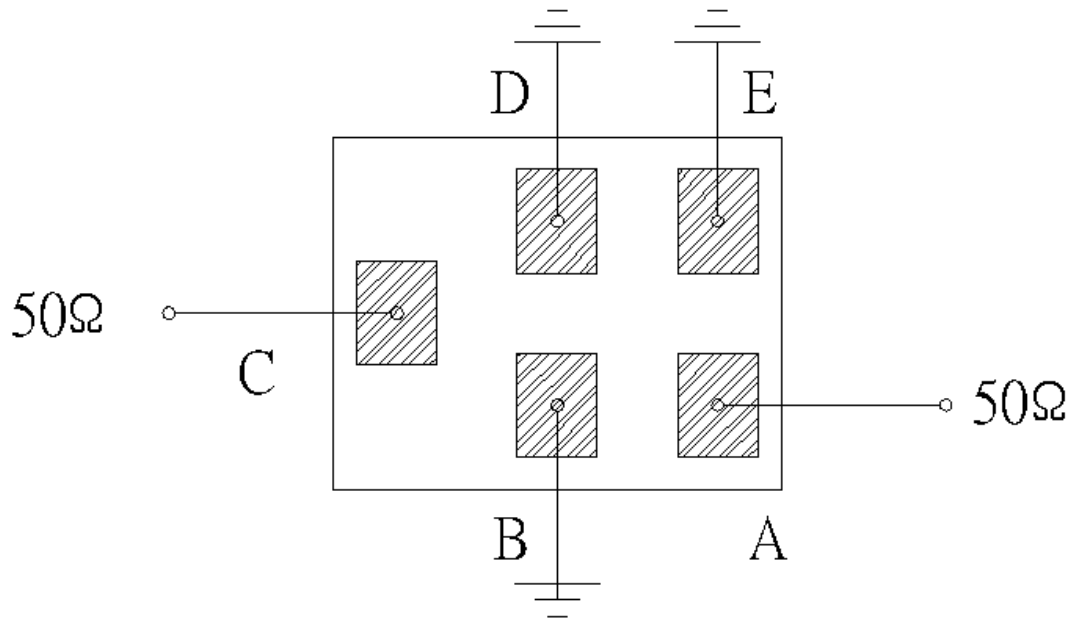
C.OUTLINE DRAWING:



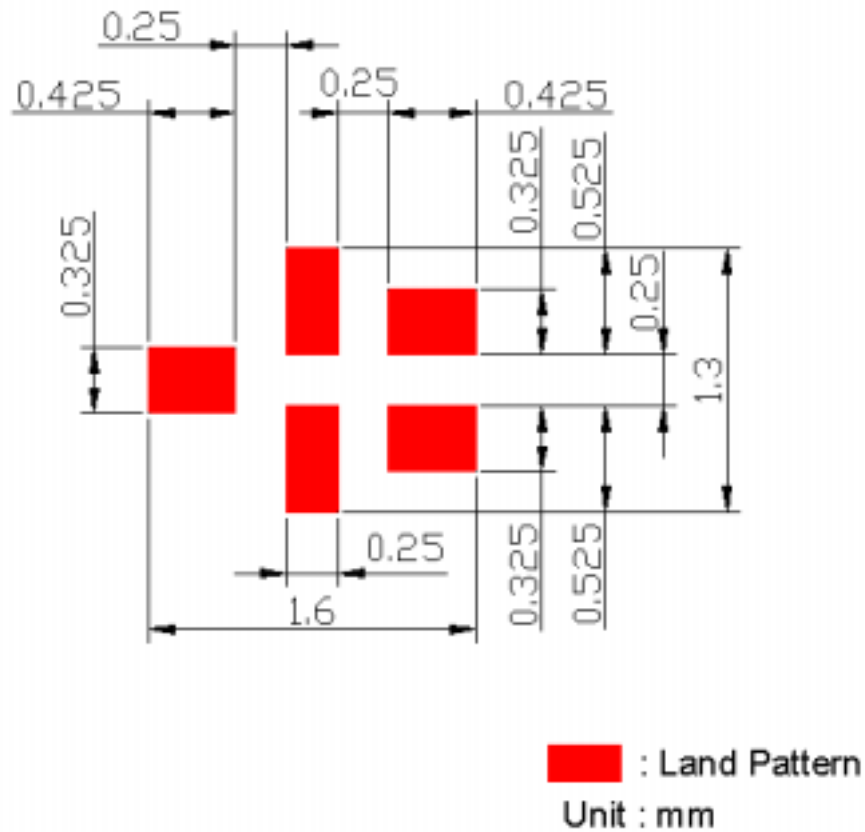
: Year/Month Code (Follow the table)

| YEAR/Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2013 | A | B | C | D | E | F | G | H | J | K | L | M |
| 2014 | N | P | Q | R | S | T | U | V | W | X | Y | Z |
| 2015 | a | b | c | d | e | f | g | h | j | k | l | m |
| 2016 | n | p | q | r | s | t | u | v | w | x | y | z |
| 2017 | <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> | <u>G</u> | <u>H</u> | <u>J</u> | <u>K</u> | <u>L</u> | <u>M</u> |
| 2018 | <u>N</u> | <u>P</u> | <u>Q</u> | <u>R</u> | <u>S</u> | <u>T</u> | <u>U</u> | <u>V</u> | <u>W</u> | <u>X</u> | <u>Y</u> | <u>Z</u> |
| 2019 | <u>a</u> | <u>b</u> | <u>c</u> | <u>d</u> | <u>e</u> | <u>f</u> | <u>g</u> | <u>h</u> | <u>j</u> | <u>k</u> | <u>l</u> | <u>m</u> |
| 2020 | <u>n</u> | <u>p</u> | <u>q</u> | <u>r</u> | <u>s</u> | <u>t</u> | <u>u</u> | <u>v</u> | <u>w</u> | <u>x</u> | <u>y</u> | <u>z</u> |

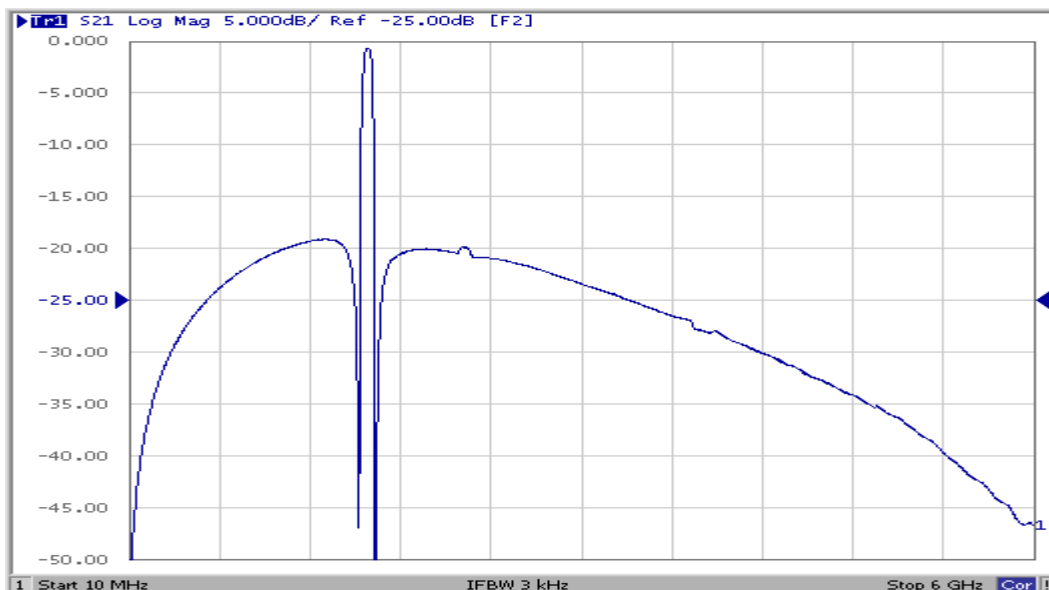
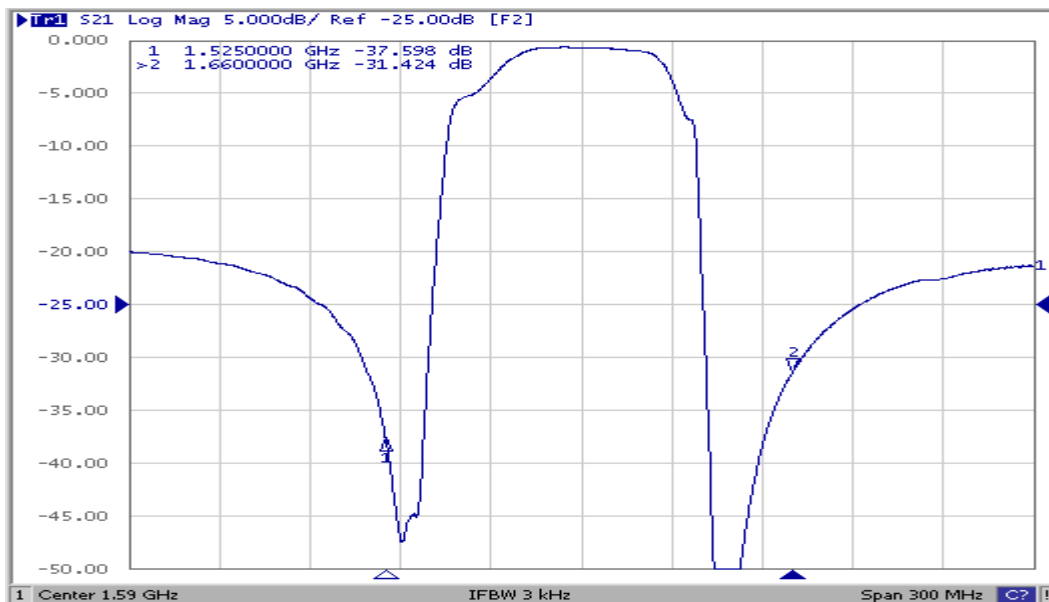
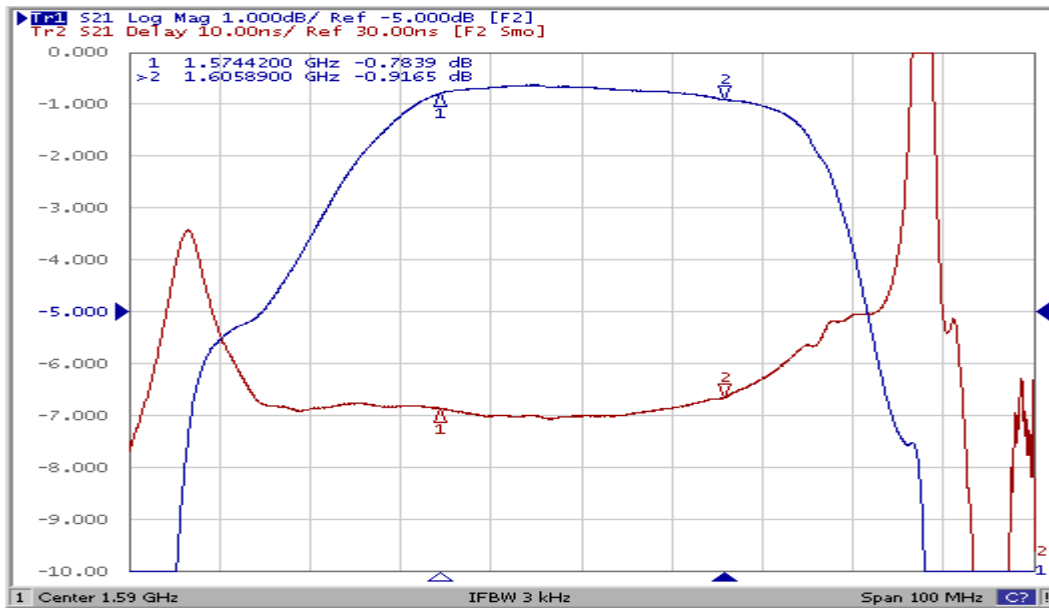
D. MEASUREMENT CIRCUIT:



E. PCB Footprint:

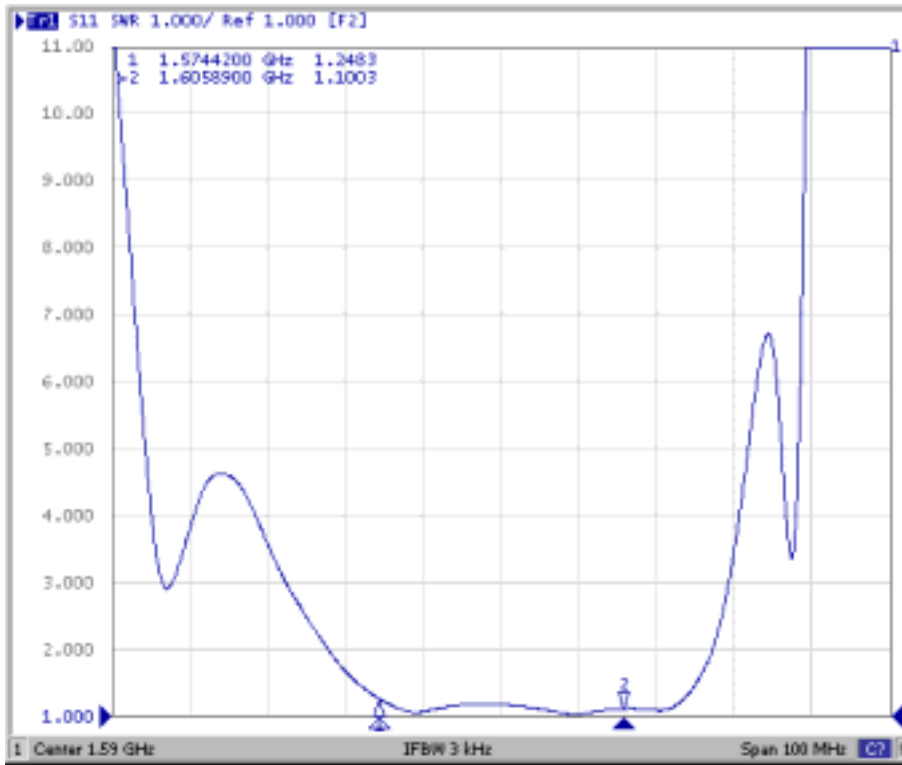


F. Frequency Characteristics :

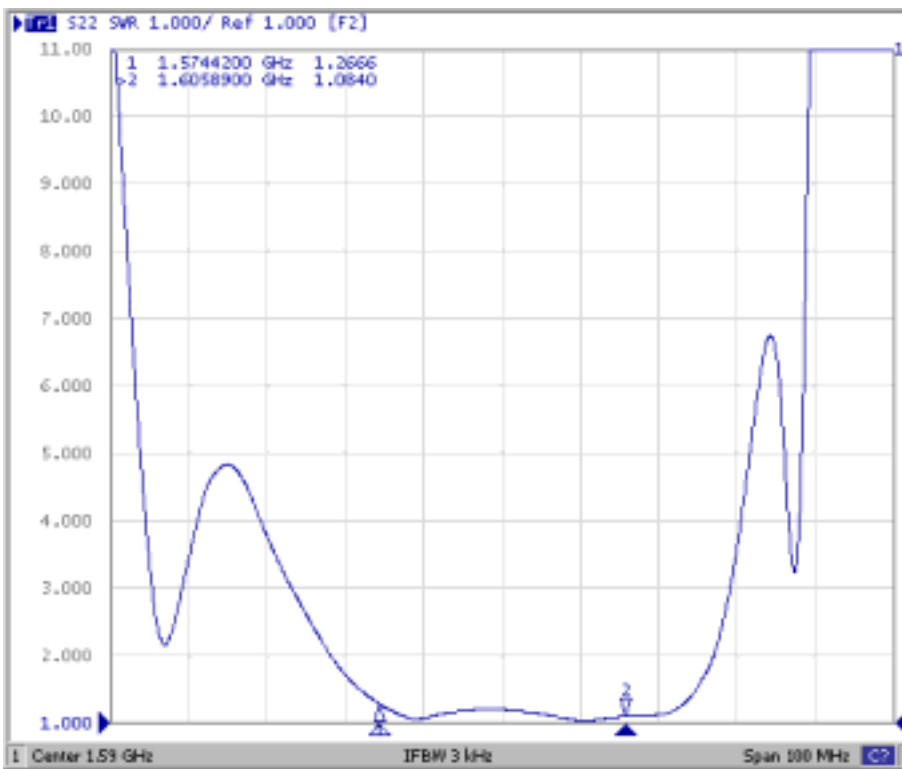


Reflection Functions :

S11

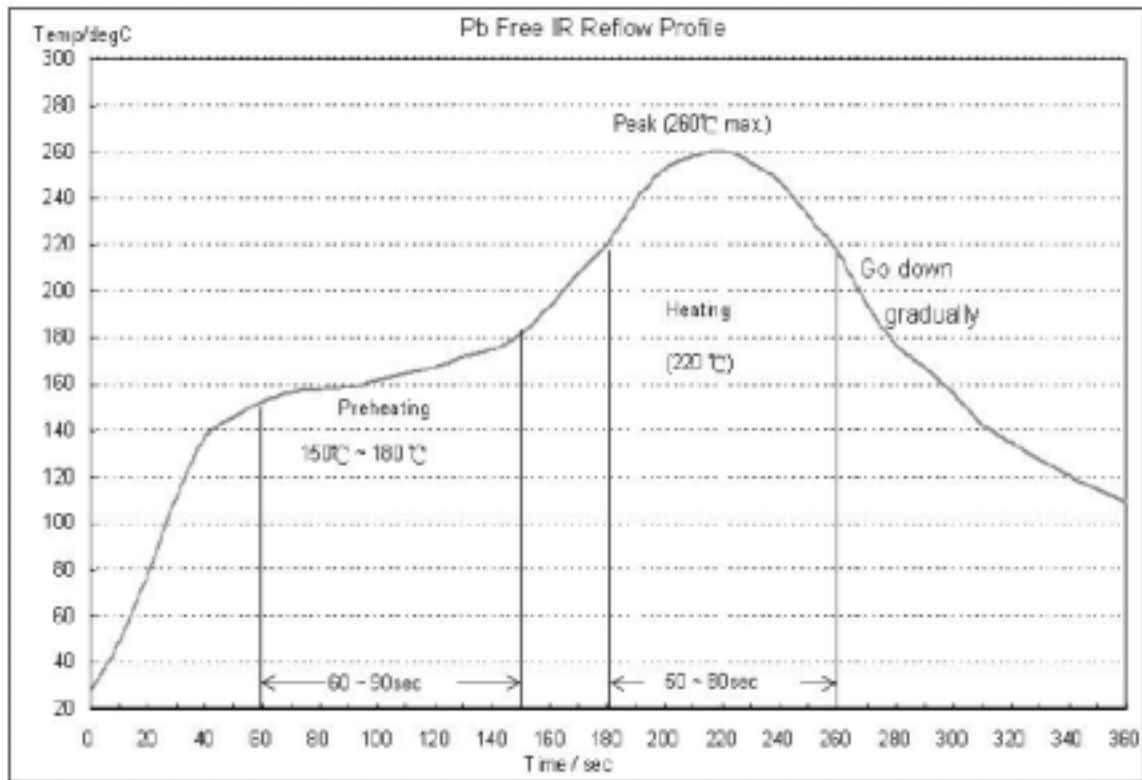


S22



H. RECOMMENDED REFLOW PROFILE :

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



单击下面可查看定价，库存，交付和生命周期等信息

[>>TAI-SAW\(台湾嘉硕\)](#)