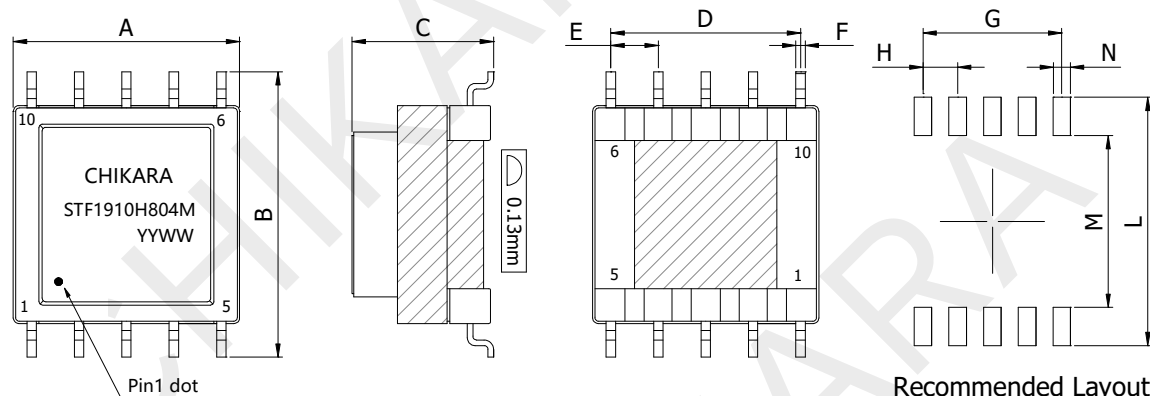


### Features

- Small size, Surface mount, Low profile
- Storage temperature range:-25°C to + 60°C
- Operating temperature range:-40°C to + 125°C  
(including coil's self-temperature rise)
- Moisture sensitivity level:1
- Packaging: 250pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



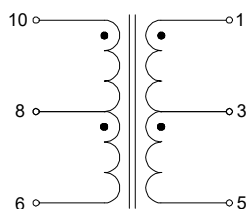
### Mechanical Dimension(Unit:mm)



Recommended Layout

| A      | B        | C      | D         | E        | F       | G     | H    | L    | M     | N    |
|--------|----------|--------|-----------|----------|---------|-------|------|------|-------|------|
| 13±1.0 | 18.5±1.0 | 10±1.0 | 10.16±0.5 | 2.54±0.3 | 0.6±0.1 | 10.16 | 2.54 | 18.9 | 13.36 | 1.22 |

### Electrical Schematic



### Marking

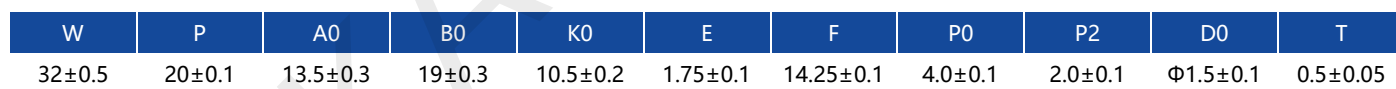
CHIKARA-----Brand  
STF1910H804M-----Part Number  
YYWW-----Date Code

### Electrical Characteristic

| No. | Item                       | Terminal<br>(Start – Finish) | Specification | Test<br>condition | Test<br>instrument |
|-----|----------------------------|------------------------------|---------------|-------------------|--------------------|
| 1   | Inductance                 | (1-5)=(10-6)                 | 800mH±20%     | 1KHz,0.3V         | HP4284A            |
| 2   | Leakage Inductance         | (1-5) at (10-6 shorted)      | 1.2mH±10%     | 1KHz,0.3V         | HP4284A            |
| 3   | Turns Ration               | (1-3):(3-5):(10-8):(8-6)     | 1:1:1:1       | 20KHz,0.1V        | Chroma3302         |
| 4   | DC Resistance <sup>1</sup> | (1-5)                        | 50Ω±10%       | at 25°C           | Chroma16502        |
| 5   | DC Resistance <sup>2</sup> | (10-6)                       | 62Ω±10%       | at 25°C           | Chroma16502        |
| 6   | Insulation Test Voltage    | (1-5) to (10-6) to Core      | 500VAC        | at 25°C           | Extech7142         |

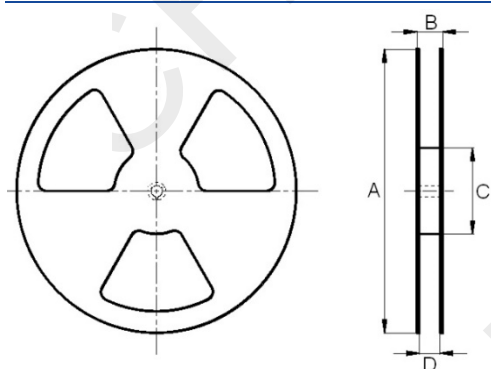
➤ All test data referenced to 25°C ambient.

- Carrier Tape (Unit:mm)



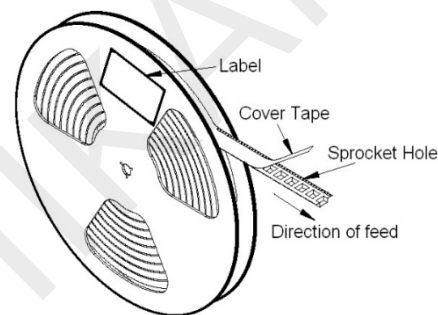
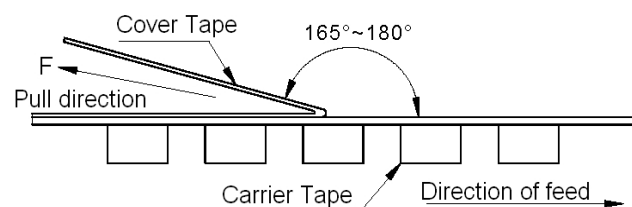
- Reel (Unit:mm)

| A        | B        | C        | D      |
|----------|----------|----------|--------|
| Φ330±1.0 | 38.1Max. | Φ100±1.0 | 33±0.5 |



- Taping Method

| Peel-off strength | Peel-off angle | Peel-off speed |
|-------------------|----------------|----------------|
| F=0.1N~1.3N       | 165°~180°      | 300mm/min.     |



✧ The allowable number of empty chip cavities Maximum two (2) chip cavities missing product may exist in a reel but they may not be consecutive two cavities.

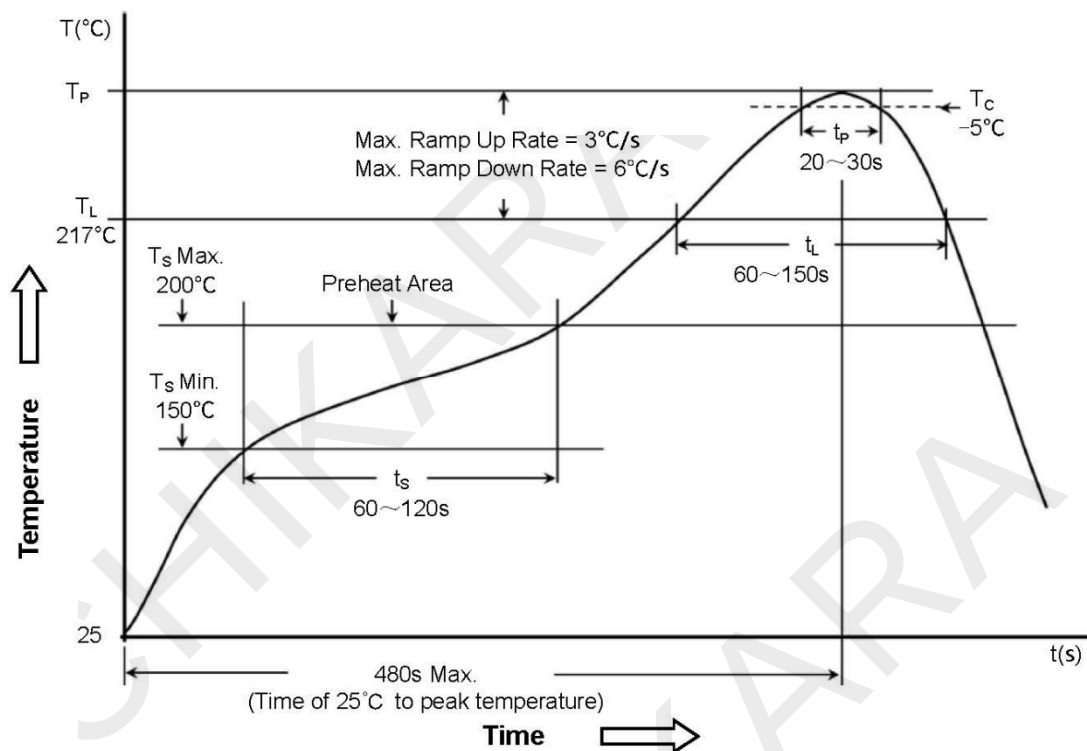
- Package Quantity

Parts per reel

250Pcs

### Soldering Specification

- Reflow profile for SMT components



- Classification of peak package body temperature (Tp)

|                  | Package Thickness | Package Volume      |                         |                      |
|------------------|-------------------|---------------------|-------------------------|----------------------|
|                  |                   | <350mm <sup>3</sup> | 350~2000mm <sup>3</sup> | >2000mm <sup>3</sup> |
| PB-Free Assembly | <1.6mm            | 260°C               | 260°C                   | 260°C                |
|                  | 1.6~2.5mm         | 260°C               | 250°C                   | 245°C                |
|                  | ≥2.5mm            | 250°C               | 245°C                   | 245°C                |