

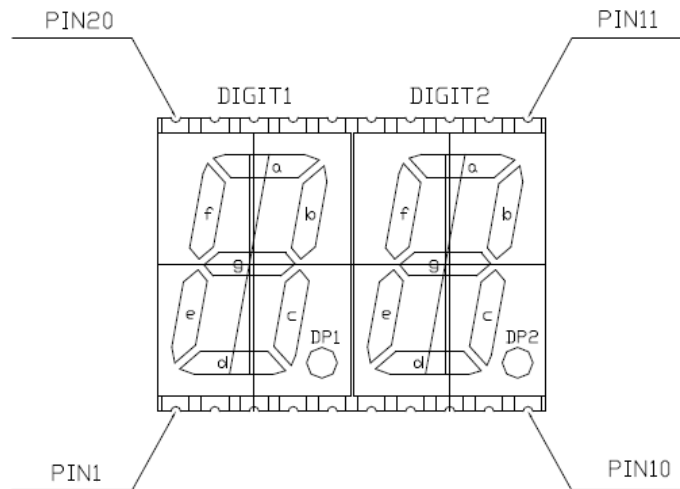


American Opto Plus LED

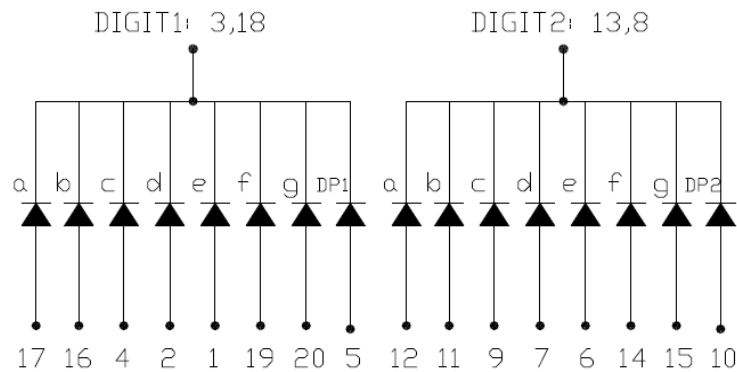
SMC/A-562X G/W

0.56" DUAL DIGIT SMT DISPLAY

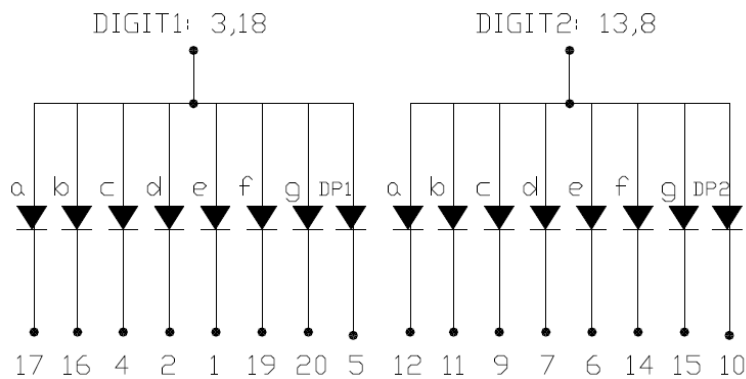
- ❖ 0.56inch (14.22mm) digit height
- ❖ Low power consumption
- ❖ RoHS Compliant
- ❖ Case mold type



Internal Circuit Diagram – Common Cathode



Internal Circuit Diagram – Common Anode





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Device Selection Guide

| Part Number | Chip | | Vf (V) | | Iv (mcd) Per Segment | | λ_p (nm) |
|-----------------|---------------|---------------|-------------------|------|-------------------------|------|------------------|
| | Material | Emitted Color | If = 10mA Min. | Typ. | If = 10mA Min. | Typ. | Peak Wavelength |
| SMC/A-562E G/W | GaAsP/GaP | Red | 2.0 | 2.8 | - | 4 | 635 |
| SMC/A-562LE G/W | AlInGaP/GaAs | Bright Red | 2.0 | 2.8 | - | 30 | 635 |
| SMC/A-562G G/W | GaP | Green | 2.1 | 2.8 | - | 5 | 570 |
| SMC/A-562LG G/W | AlInGaP | Bright Green | 2.1 | 2.8 | - | 15 | 570 |
| SMC/A-562Y G/W | GaAsP/GaP | Yellow | 2.1 | 2.8 | - | 4 | 590 |
| SMC/A-562LY G/W | AlInGaP /GaAs | Bright Yellow | 2.1 | 2.8 | - | 25 | 593 |
| SMC/A-562SR G/W | GaAsP/GaP | Super Red | 1.8 | 2.5 | - | 6 | 660 |
| SMC/A-562B G/W | InGaN/SiC | Bright Blue | 3.5 | 4.0 | - | 30 | 470 |



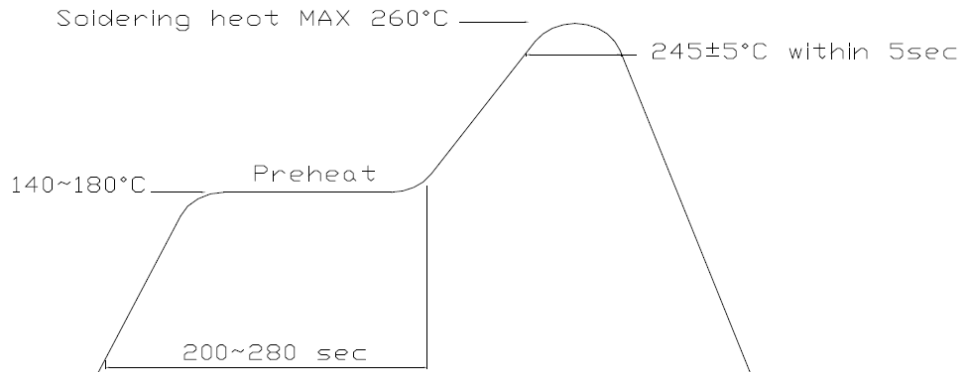
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Soldering Profile (DIP)



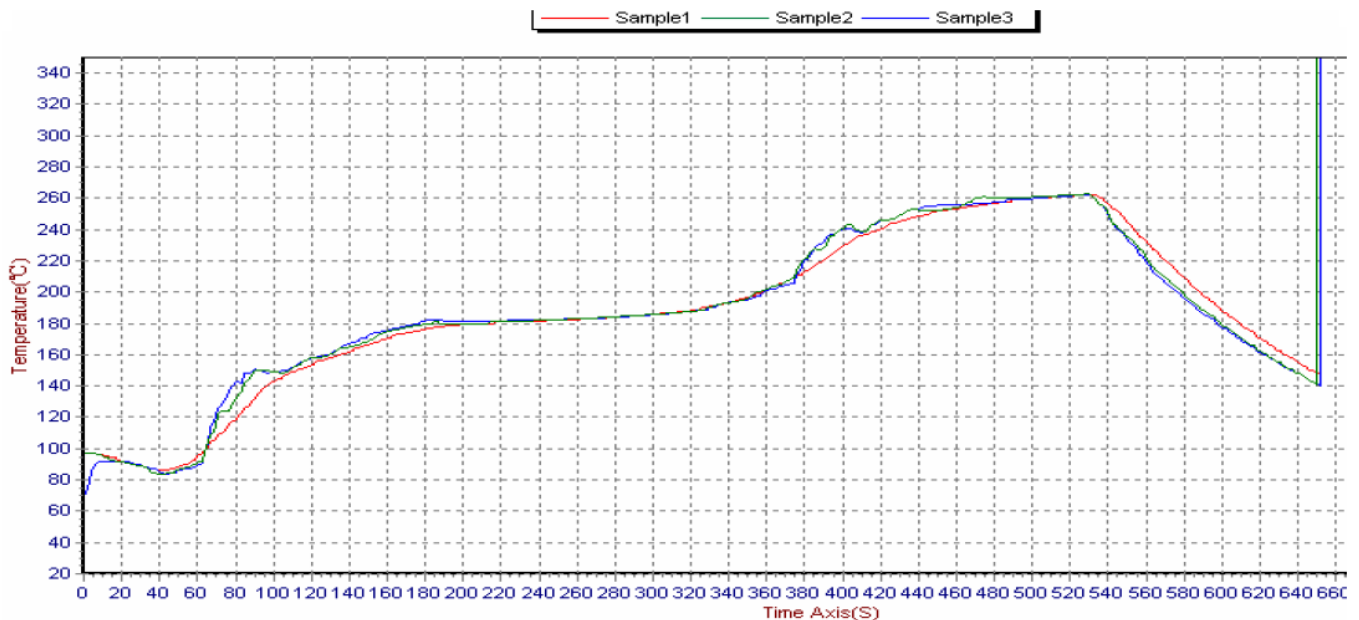
Soldering Iron

Basic spec: = 5 sec. when 260°C. If temperature is higher, time should be shorter (+10°C → -1 sec). Power dissipation of iron should be less than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

Rework

1. Customer must finish rework within 5 sec. under 260°C
2. The head of soldering iron cannot touch copper foil

IR Reflow Temperature / Time





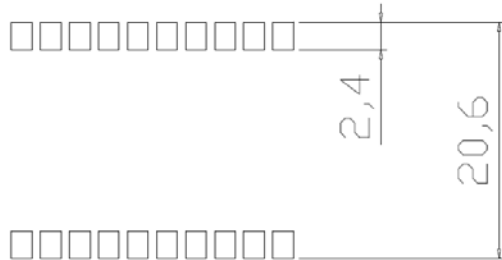
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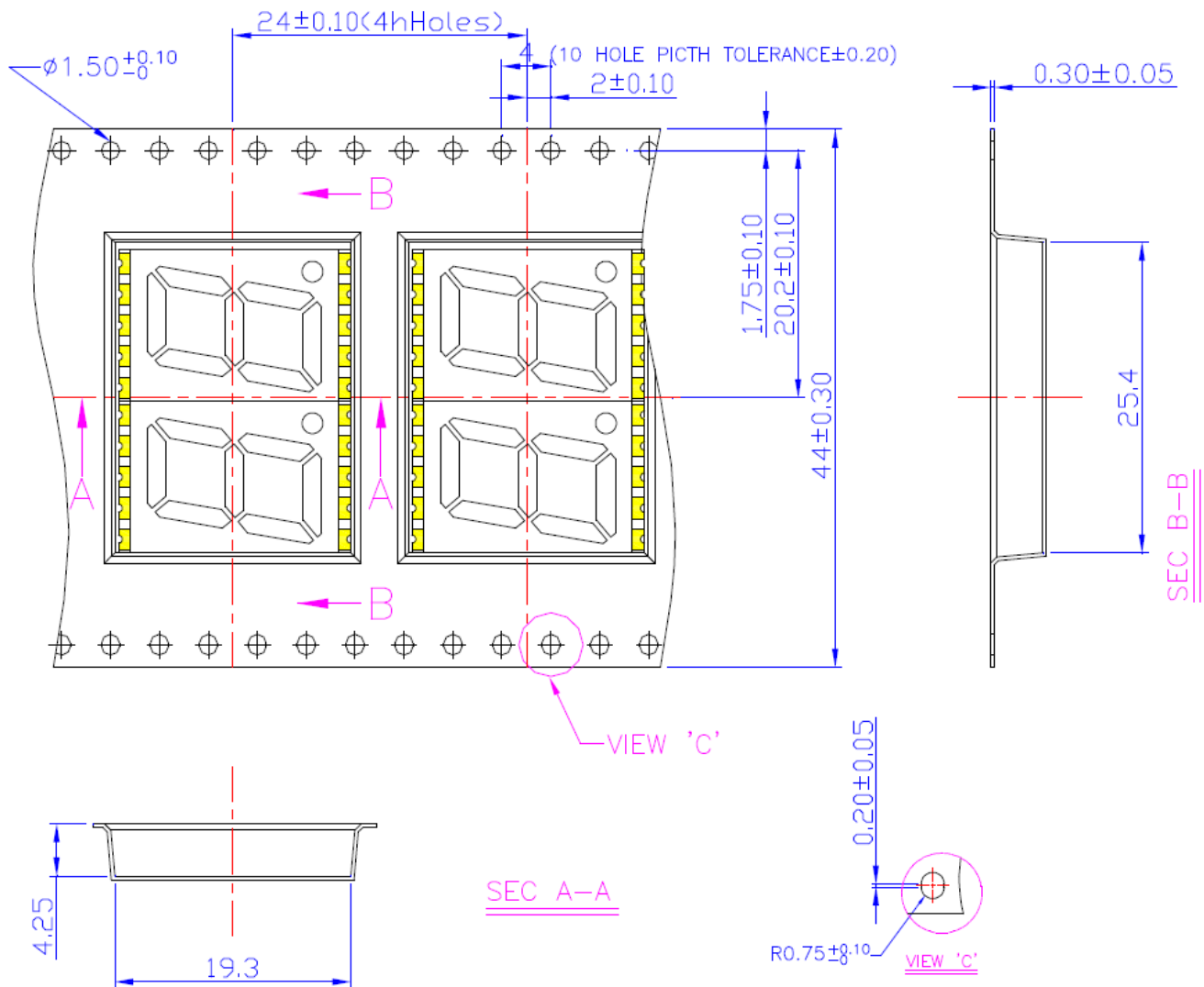
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Soldering Pad Dimensions



Tape Dimensions (Unit = mm)

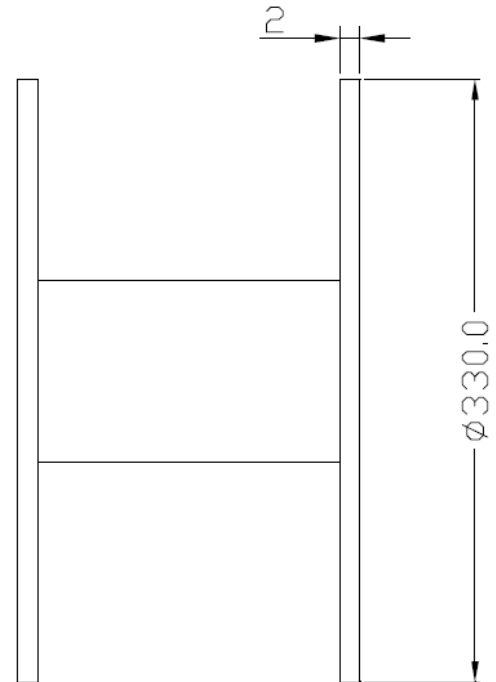
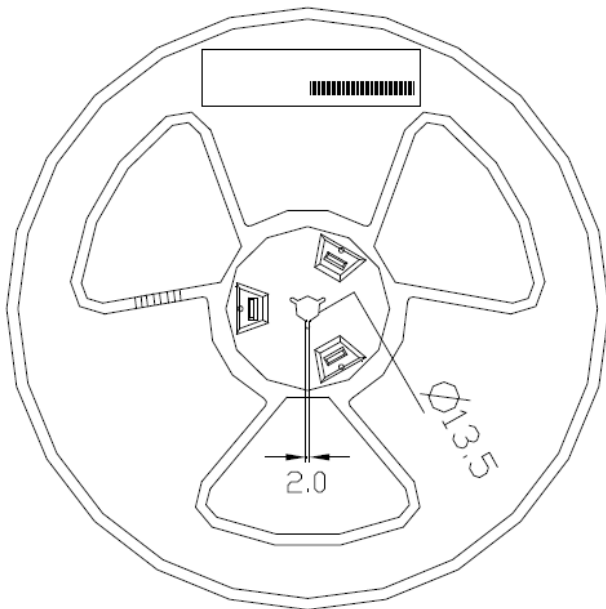




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Reel Dimensions (Unit = mm)



Notes:

1. Empty component pockets are sealed with top cover tape
2. Reel is 13.5 inch with reel size 600pcs
3. Maximum number of consecutive missing displays is 2