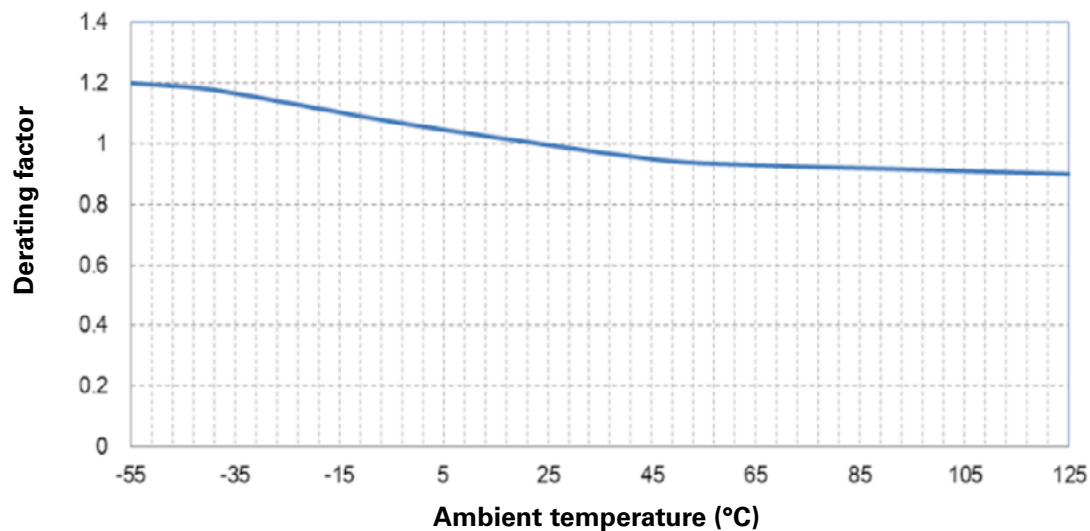


## Temperature derating curve



## Environmental data

Operating temperature: -55 °C to +125 °C (with derating)

Storage temperature (component): -55 °C to +125 °C

Terminal strength test: Force of 1.8 kg for 60 seconds (no physical evidence of mechanical or physical damage, change in resistance < 5%)

## Ordering codes

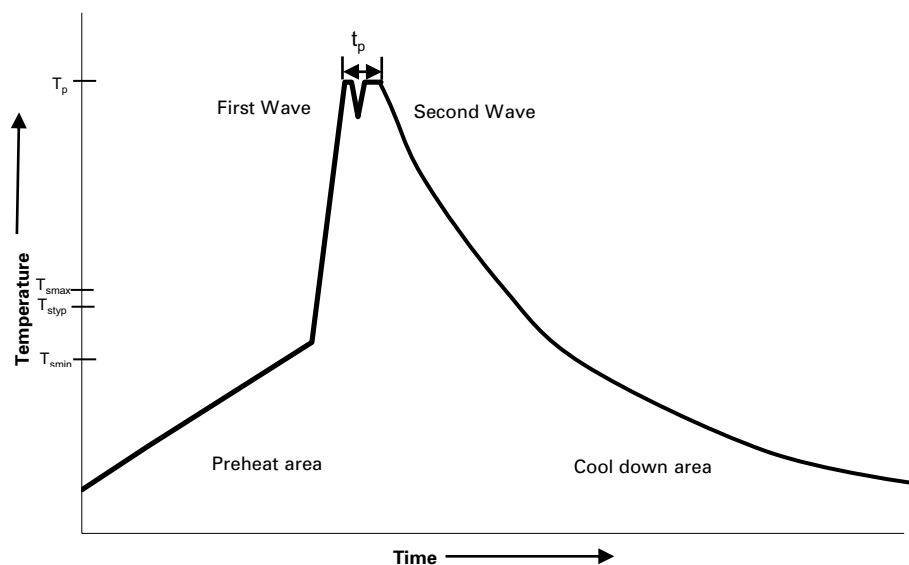
The ordering code is the part number replacing the “.” with a “-” plus adding the packaging prefix.

## Packaging prefix

TR- (5,000 parts in paper tape on a 178 mm (7”) reel)

| Part Number  | Ordering code   |
|--------------|-----------------|
|              | TR- option      |
| 0603HV500-R  | TR-0603HV500-R  |
| 0603HV750-R  | TR-0603HV750-R  |
| 0603HV1-R    | TR-0603HV1-R    |
| 0603HV1.25-R | TR-0603HV1-25-R |
| 0603HV1.5-R  | TR-0603HV1-5-R  |

## Wave solder profile



## Reference EN 61760-1:2006

| Profile feature                               | Standard SnPb solder                      | Lead (Pb) free solder                     |
|-----------------------------------------------|-------------------------------------------|-------------------------------------------|
| Preheat                                       |                                           |                                           |
| • Temperature min. ( $T_{smin}$ )             | 100 °C                                    | 100 °C                                    |
| • Temperature typ. ( $T_{styp}$ )             | 120 °C                                    | 120 °C                                    |
| • Temperature max. ( $T_{smax}$ )             | 130 °C                                    | 130 °C                                    |
| • Time ( $T_{smin}$ to $T_{smax}$ ) ( $t_s$ ) | 70 seconds                                | 70 seconds                                |
| $\Delta$ preheat to max Temperature           | 150 °C max.                               | 150 °C max.                               |
| Peak temperature ( $T_p$ )*                   | 235 °C – 260 °C                           | 250 °C – 260 °C                           |
| Time at peak temperature ( $t_p$ )            | 10 seconds max<br>5 seconds max each wave | 10 seconds max<br>5 seconds max each wave |
| Ramp-down rate                                | ~ 2 K/s min<br>~3.5 K/s typ<br>~5 K/s max | ~ 2 K/s min<br>~3.5 K/s typ<br>~5 K/s max |
| Time 25°C to 25°C                             | 4 minutes                                 | 4 minutes                                 |

## Manual solder

+350 °C (4-5 seconds by soldering iron), generally manual/hand soldering is not recommended