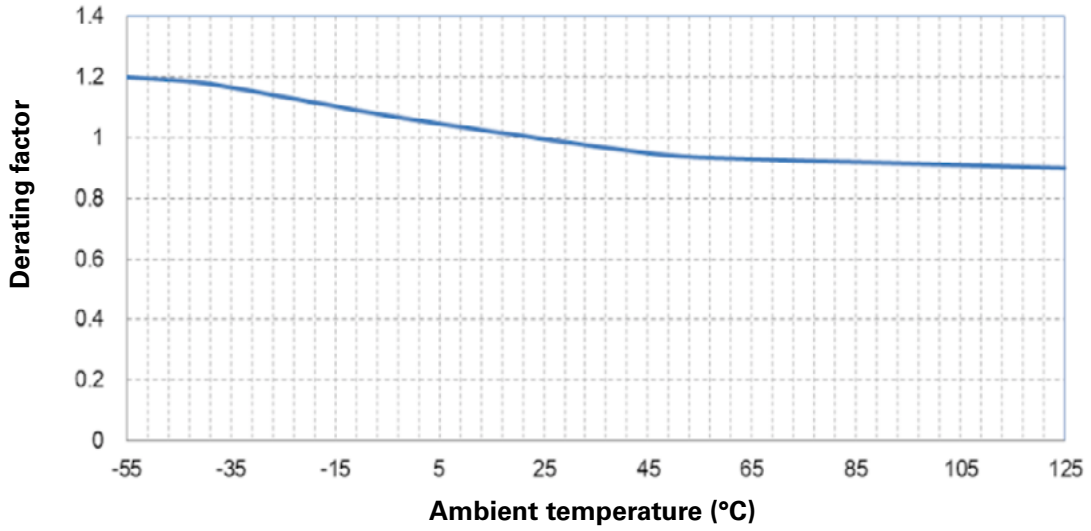
Temperature derating curve



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

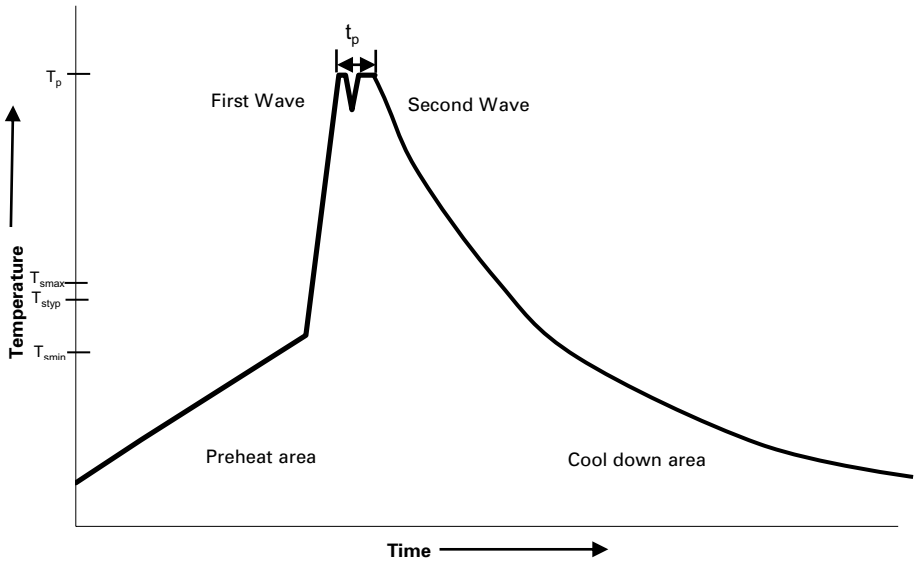
The ordering code is the part number replacing the "." with a "-" plus adding the packaging preffix.

Packaging prefix

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

	Ordering code
Part Number	**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
Δ preheat to max Temperature		150 °C max.	150 °C max.
Peak temperature (Tp)*		235 °C – 260 °C	250 °C – 260 °C
Time at peak temperature (t_p)		10 seconds max 5 seconds max each wave	10 seconds max 5 seconds max each wave
Ramp-down rate		~ 2 K/s min ~3.5 K/s typ ~5 K/s max	~ 2 K/s min ~3.5 K/s typ ~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