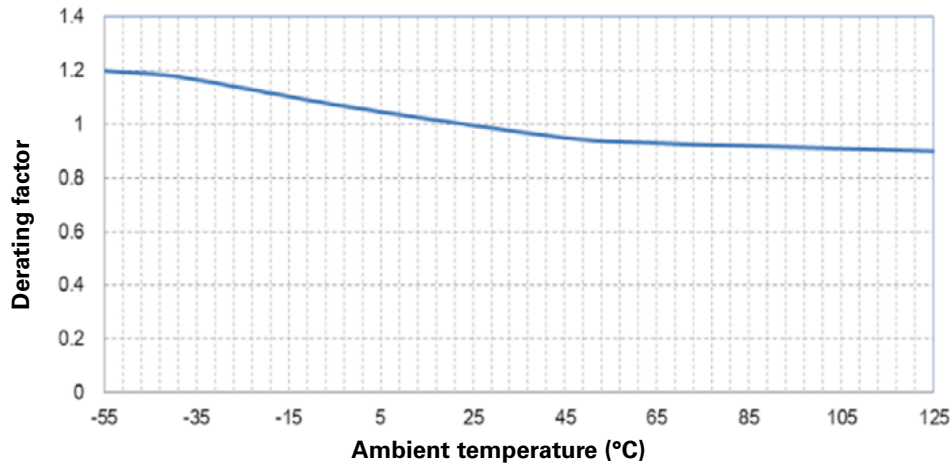


Temperature derating curve



Environmental data

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

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

Life test: MIL-STD-202, Method 108A, except circulating air environment at +125 °C ±2 °C, apply 60% rated current for 1000 hours

Load humidity test: MIL-STD-202, Method 103B except: environmental chamber 85%+2% relative humidity at +85 °C ±2 °C, 10% of rated dc current, at any voltage less than or equal to rated voltage for 1000 hours

Terminal strength test: Force of 1.8 kg for 60 seconds

TBoard flex test: Downward force is applied to cause a 2 mm deflection for 1 minute (no physical evidence of mechanical or physical damage, change in resistance < 5%)

Thermal shock test: MIL-STD-202, Method 107D, -55 °C to +125 °C, 200 cycles

Mechanical shock test: MIL-STD-202, Method 213 condition C, 100 g's half-sine for 6 seconds

High frequency vibration test: MIL-STD-202, Method 204, 5 g's for 20 minutes, 12 cycles each of 3 orientations, 10 to 2000 Hz

Resistance to solvents test: MIL-STD-202, Method 215A

High temperature exposure: 1000 hours at +125 °C unpowered

Resistance to solder heat: MIL-STD-202 Method 210 condition B

Solderability: ANSI/J-STD-002,
Dip and look test: Test B
Wetting balance test: Test F
Resistance to dissolution of metalization test: Test D

Ordering codes

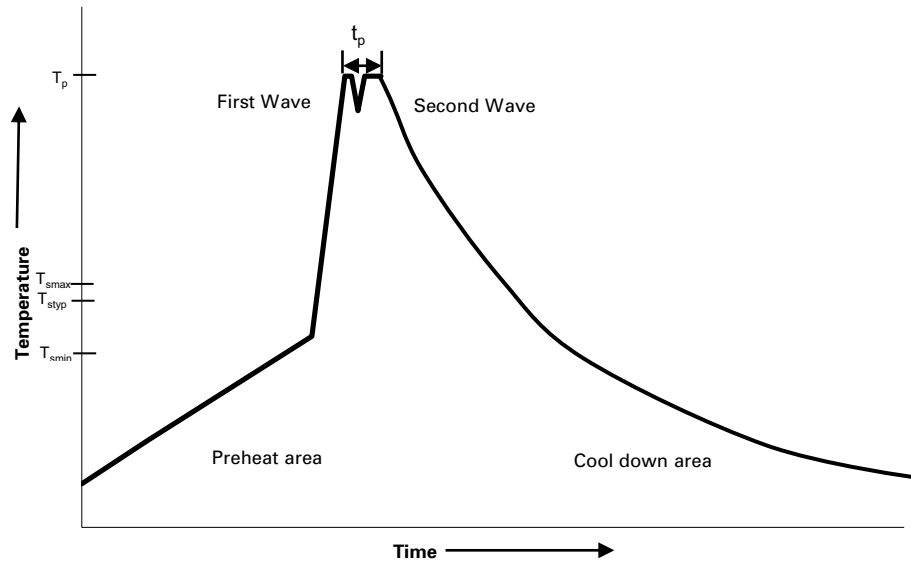
The ordering code is the part number replacing the “:” with a “-” plus adding the packaging suffix.

Packaging suffix

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

Part Number	Ordering code -TR option
CC06FA500mA	CC06FA500mA-TR
CC06FA750mA	CC06FA750mA-TR
CC06FA1A	CC06FA1A-TR
CC06FA1.25A	CC06FA1-25A-TR
CC06FA1.5A	CC06FA1-5A-TR

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 (T_p)*	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