

REFLOW SOLDERING PROFILE

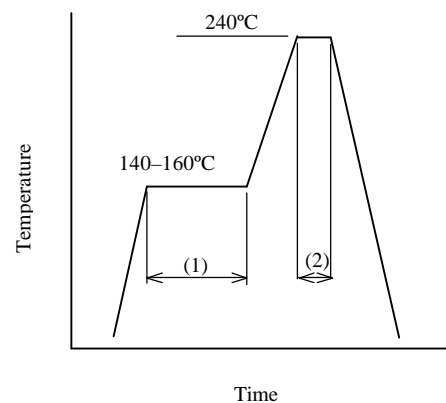
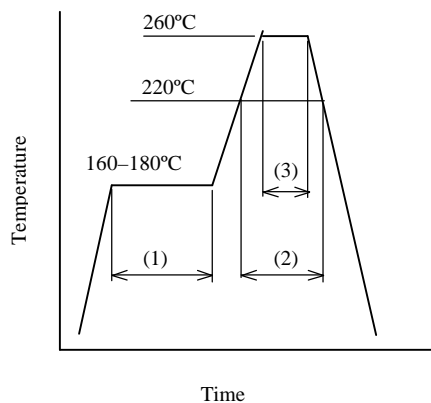
Surface-mount crystal products applicable to the lead free soldering are classified as "Reflow Temperature Profile A" and crystal products applicable to the lead soldering are classified as "Reflow Temperature Profile B."

	Reflow Soldering Profile A		Reflow Soldering Profile B	
Tuning Fork Crystal Resonators	SX206 X31	X41 X130C	TB15SMD TB26SMD	SX206 SX99
Crystal Resonators	X25 X32 X42 X53 X63 X75	X84 X115 X135 49SM 49SSM 49SX series	UM4MJ UM5MJ UM1MJ 52MJ 49MJ	
Ceramic Resonators	ZTC ZTTC			
Crystal Oscillators VCXO VC-TCXO	SX2 series SX3 series SX5 series SX7 series SP1 series KP series SP3 series	SP.2 series SP4 series SP4GW series SP7 series C18 series	S4 series SP.8 series	
VCO	M-type P-Type	V-type		

Reflow Temperature Profile A

Reflow Temperature Profile B for lead soldering

(Applicable to the lead free soldering)



(1)	Preheat	160-180°C	120sec.
(2)	Primary heat	220°C	60sec.
(3)	Peak	260°C	10sec.max.

(1)	Preheat	140-160°C	120sec.
(2)	Peak	240°C	10sec.max.
		Total time	200sec.max.

The reflow temperature profile may vary depending on the product model, specifications and frequency range. Please consult us for further information.

All our parts will be compatible with lead-free soldering by the second quarter of 2005.