

Wave Profiler Fixture



Wave Surfer Advantages

- Quick wave solder machine set up
- Profile preheat and wave sections
- Measure wave parameters
- Optimize preheat with optional software
- Check conveyor speed
- Track machine repeatability

Check your wave soldering process and fine-tune your machine for optimum performance with the KIC Wave Surfer™.

The Wave Surfer profiler fixture used in conjunction with your KIC profiler and the KIC software, provides critical data on wave solder machine set up and performance. This system ensures your wave solder machine is set up and performing properly.

The Wave Surfer and KIC profiler travel through the machine and collect thermal data in the preheat area using a sample PCB. They then collect specific wave information in the wave using embedded TCs.

The easy, accurate and repeatable operation uses KIC's award winning software. The software graphically guides you through each easy step to acquire a profile and optionally optimize the process. Once the profile is complete, the graph and report will display:

- **User defined preheat data and Process Window Index for:**
 - Peak preheat temps
 - Ramp rates
 - Total time above temps
 - Miscellaneous user defined parameters
- Measured conveyor speed
- Dwell time
- Parallelism
- Solder pot temperature
- Machine settings
- Process specs and limits

TECHNICAL SPECIFICATIONS

Dimensions (L x W x H):	..... 411mm x 305mm x 37mm (16.2" x 12" x 1.5")
Weight:	..... 2.509kg (5.531 lbs) without profiler and sample PCB
Max Temperature:	..... 350°C
Thermocouples:	
Wave Surfer Fixture:	..... 5 Type K, sheathed 1mm (0.04")
Profile Board:	..... 5 Type K, Teflon insulated .25mm (.01")
Pallet Material:	..... Durastone, Black, Anti- Static
Hardware:	..... Titanium and Stainless Steel
TC Protrusion:	..... 0.1mm (.004")
Protrusion Tolerance:	..... ±0.1mm (±.004")
Max Difference of all TCs:	..... 0.05mm (.002")

The standard KIC Wave Surfer consists of:

- KIC Wave Surfer fixture complete with embedded thermocouples that meet or exceed special limits of error type K thermocouples.
- RoHS Compliant
- 2 Sample PCB's (light and heavy)
- 5 Self-Adhesive, Type K TC's
- KIC software and User Manual including a section on using the KIC Wave Surfer with your KIC profiler.

The Wave Surfer is made of material similar to typical wave solder pallets and therefore can withstand thousands of passes.

See the profiler product data sheets for thermal profiler features and specifications.



Wave Solder Profiling Fixture

Technical Support — 24 Hours EveryDay — Everywhere

Risk Free Guarantee

All KIC products are designed to give maximum value and fast payback by streamlining your thermal process. Investment in a KIC product is a step toward total process control and quality management. All KIC products come with a no questions asked, 30 day money back guarantee. For more information on any of our products or service please visit us on the Web at: www.kicthermal.com or www.kic.cn.