DATA SHEET

SlimKIC® 2000

Thermal Profiler

Errors Eliminated

- Oven Set Up: automated nearly all manual input
- Product Set Up: automated board mapping
- Process Set Up: automated profile specifications
- Profile Runs: automated visual operator instructions
- Safety Features: automated directions prevent profiling when the unit is too hot or the battery is too low
- Data Integrity: automated retrieval guarantees complete profile data
- Process Analysis: automated identification of process stability

Profiling So Easy, Anyone Can Do It

Profiling Made Easy

By automating the complex task of process set up the SlimKIC® 2000 makes profiling so easy that any operator can quickly achieve the optimal process. Simply select from a built-in library containing hundreds of commonly used solder paste specifications. The software uses the paste supplier's thermal profile specs to automatically define the process window. Color-coded signals alert the operator to any out-of-specification conditions.

Profiling Made Fast

The SlimKIC 2000 features innovative, patent pending technology that virtually eliminates the time consuming tasks traditionally associated with temperature profiling. Oven zones and mapping of thermocouples on the product are automated. Process acceptability is instantly determined, reducing the number of required profile runs and minimizing production downtime.

Profiling Made Precise

The SlimKIC 2000 simplifies profiling by reducing the process to a single number — the Process Window Index™ (PWI) — so you know precisely how good your profile is. The simplified user interface guides the operator through the profiling process, minimizing the potential for improper oven set up and yield-reducing defects.

Profiling Made Painless

The SlimKIC 2000 takes the pain out of process set up for even the most complex products and requirements — including the narrow process window imposed by Lead-Free compliance. Eliminate the pain of Lead-Free transition from your thermal process, while optimizing product quality and reliability.

KIC Navigator™

The KIC Navigator option automates the optimization of your process set up. Please see the KIC Navigator data sheet for additional information.

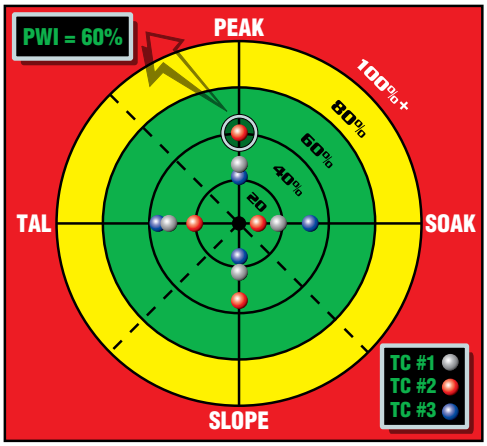
KIC Auto-Focus™

The KIC Auto-Focus option eliminates the guesswork associated with initial product set up. Auto-Focus includes KIC Navigator. Please see the Auto-Focus data sheet for additional information.

KIC ON BOARD

KIC® Innovation That Works™

The Process Window Index™



Profiling Reduced to a Single Number

For precise ranking of profile performance, the SlimKIC 2000 uses the Process Window Index (PWI). The PWI calculates how much of the available process window is used by a given profile in relation to its process specifications. Therefore, the lower the PWI, the more efficient and stable the process! *(See the PWI data sheet for a detailed explanation)*

SlimKIC 2000

Accuracy: .....±1.2°C
Resolution:.....Variable 0.3 to 0.1°C
Internal Operating Temp:.....0°C to 105°C
Thermocouple Compatibility:..Type K, 9 or 12 TCs
Temperature Range: .....-150°C to 1050°C
Computer Capability: .....PC
Power Requirements:.....9V alkaline battery
Thermal Receiver: .....433.92 MHz
Dimensions: .....See *Temperature Tolerance Chart* below for specifications.

Datalogger Model: data is downloaded to the computer through a cable after the run.

Dual Unit Model: data is sent to the computer in real-time during the run. It is also stored internally for high-speed download after the run.

Note: The SlimKIC 2000 can interface directly with the oven controller, eliminating the need for manual setpoint data entry. Please consult your oven supplier for availability.

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.

Temperature Tolerance Chart

(maximum endurance in minutes at specified temperature)

CONFIGURATION	DIMENSIONS (mm) (Length x Width x Height)	150°C	200°C	250°C	300°C	350°C	400°C
SlimKIC 2000, 9CH no shield	260.4 x 76.2 x 19.9	8.5	5.5	4.2	3.5		
SlimKIC 2000, 12CH no shield	260.4 x 101.6 x 19.9	8.5	5.5	4.2	3.5		
LowRider cover	260.4 x 76.2 x 19.9	13.9	8.3	5.5	4.7		
Thermal Shield 1/8" (3.2mm), 9CH	323.9 x 86.4 x 26.4	17.6	11.0	8.0	6.4		
Thermal Shield 1/8" (3.2mm), 12CH	323.9 x 108.0 x 26.4	17.6	11.0	8.0	6.4		
LowRider and Thermal Shield 1/8" (3.2mm)	323.9 x 86.4 x 26.4	22.6	15.1	10.7	8.7		
Thermal Shield 1/4" (6.4mm), 9CH	330.2 x 95.3 x 34.3	24.6	15.5	11.5	9.8		
Thermal Shield 1/4" (6.4mm), 12CH	330.2 x 115.6 x 34.3	24.6	15.5	11.5	9.8		
LowRider and Thermal Shield 1/4" (6.4mm)	330.2 x 95.3 x 34.3	30.7	22.6	16.4	12.2		
Long Duration Thermal Shield	381.0 x 139.7 x 76.2	62.8	42.2	33.1	29.7		
Lead-Free Thermal Shield, 9CH	343.9 x 88.9 x 25.4	18.6	12.7	10.7	9.1	7.9	7.6
Lead-Free Thermal Shield, 12CH	343.9 x 109.9 x 25.4	18.6	12.7	10.7	9.1	7.9	7.6

Computer Configuration

Minimum System Requirements

800 MHz Processor / 256 MB RAM[1]
2 GB available storage (for product history)
Video 1024 x 768 resolution / 16-bit
1 available USB port (for data download)
1 available parallel port or USB port (for software key options)
Microsoft® Windows® 2000, XP or Vista[2]

1 When KIC Software is running on a computer with other applications, a faster CPU and more RAM may be required.
2 Contact KIC for issues with operating systems other than those listed.

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FEATURES and SPECIFICATIONS