

## T600 Thermal Platform

The ESS, Inc. line of thermal platforms offers the fastest, most convenient method of testing electronic components that may be heated and cooled by direct conduction. Not only are thermal plates much faster than chambers but also cabling, probing and tuning of the device under test is much more easily accomplished.

Heating is provided by resistance elements and cooling by the expansion of liquid Carbon Dioxide (LCO<sub>2</sub>) or liquid Nitrogen (LN<sub>2</sub>) in a computer designed channel within the platform.

A variety of standard sizes insures quick delivery of a plate that is well suited to your test requirements. Additional standard features include precision grinding and hard plating of surfaces, threaded inserts for fixturing and a redundant thermal failsafe system.

ESS also offers custom plates to handle unique test requirements such as high power components like TWT's. Other plates are suited to the special needs of MIC's, Hybrids, & PCB probing. A dual circuit plate with dual channel controller allows you to maintain an even temperature across the entire plate surface even with a "hot spot" generated by a TWT collector.

Dry box desiccators utilizing a dry Nitrogen (GN<sub>2</sub>) purge system allow frost free testing below dew point. Ground & plated fixturing

adapter plates and our universal hold down clamping arm are quick & easy ways to attach devices to our platform. Insulated supply hoses are also available.



### Benefits:

- Low initial cost
- Rapid and efficient testing of components
- Compact size

### Features:

***Brazed monolithic thermal platform***

***Very fast temperature ramp rates***

***Extremely efficient channel design***

***Corrosion proof stainless steel chassis***

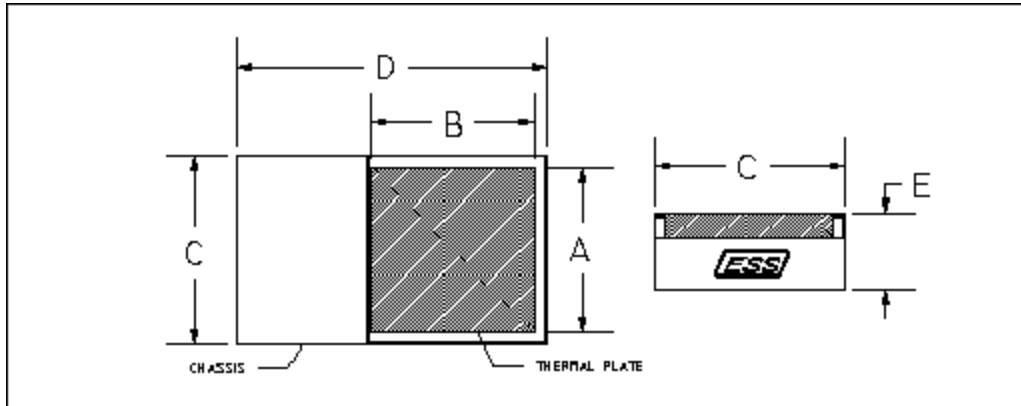
***User device probe with cascade software***

***Built in ramp & soak profiling software***

***Standard EIA 232 computer interface***

***Surface hard plated for long wear***

***Optional IEEE-488 GPIB interface***

**Dimensions of the system**

**Dimension Table (refer to diagram above)**

MODEL	USABLE PLATE AREA		OVERALL CHASSIS DIMENSIONS		
	A (w)	B (d)	C (w)	D (d)	E (h)
T6002	2" (51 mm)	2" (51 mm)	3"	8"	3" (3.45")*
T6006	6.75" (171 mm)	6.75" (171 mm)	7.75"	12.75"	3" (3.45")*
T600613	6.75" (171 mm)	13.25" (337 mm)	7.75"	18.75"	3" (3.45")*
T600620	6.75" (171 mm)	20" (508mm)	7.75"	25.5"	3" (3.45")*
T600626	6.75" (171 mm)	26.25" (667mm)	7.75"	31.75"	3" (3.45")*
T6001015	10" (254mm)	15" (375mm)	16"	16"	3" (3.45")*
T60011	11" (280mm)	11" (280mm)	12"	17"	3" (3.45")*
T6001122	11" (280mm)	22" (559mm)	23"	17.5"	3" (3.45")*

\* Total height with feet

**Performance and Facility Data**

MODEL	Temp. Range LCO <sub>2</sub>	Temp. Range LN <sub>2</sub>	Heating	Cooling LCO <sub>2</sub>	Cooling LN <sub>2</sub>	Facility 110/220 VAC 60/50Hz
T6002	-65°C to +130°C	-100°C to +130°C	200 watts	300 or 900 psia	15-25 psig	2/1 Amps
T6006	-65°C to +130°C	-100°C to +130°C	1000 watts	300 or 900 psia	15-25 psig	9/4.5 Amps
T600613	-65°C to +130°C	-100°C to +130°C	1600 watts	300 or 900 psia	15-25 psig	14/7 Amps
T600620	-65°C to +130°C	-100°C to +130°C	2000 watts	300 or 900 psia	15-25 psig	14/7 Amps
T600626	-65°C to +130°C	-100°C to +130°C	2400 watts	300 or 900 psia	15-25 psig	19/9.5 Amps
T6001015	-65°C to +130°C	-100°C to +130°C	1800 watts	300 or 900 psia	15-25 psig	16/8 Amps
T60011	-65°C to +130°C	-100°C to +130°C	2000 watts	300 or 900 psia	15-25 psig	17/8.5 Amps
T6001122	-65°C to +130°C	-100°C to +130°C	4000 watts	300 or 900 psia	15-25 psig	NA/17Amps

**Systems Include:**

Temperature plate, RC900 controller, interconnection cables, power supply cord and operation manual.

**Accessories Available:**

- Clear Polycarbonate cover w/handle
- Adapter plate w/hardware
- Hold down clamping fixture
- LCO<sub>2</sub> Hose-6' with adapter fitting & filter
- LN<sub>2</sub> Hose-6' insulated stainless steel
- Low pressure supply Nitrogen (GN<sub>2</sub>) purge system for desiccator (Facility GN<sub>2</sub> supply of 100 psig or less)
- High pressure supply Nitrogen (GN<sub>2</sub>) purge system for desiccator (Facility GN<sub>2</sub> supply 100 to 2000 psig)
- Desiccator for nitrogen purge