

## THERMAL SHOCK

*This form was developed to assist you in developing custom product stress testing requirements. By completing this form (or the parts of it relevant to your needs) and returning it to Motorola Product Testing Services, you are obligated to nothing. We will gladly answer questions and/or provide you a quotation for services at no cost to you. For prompt and professional service, please fax to:*

**(847) 761-4745**

### 1. Contact Information

Your Name	
Your Company's Name	
Mailing Address (1)	
Mailing Address (2)	
City	
State or Province	
Country	
Zip or Postal Code	
Fax Number	
Email	
Phone Number	

### 2. Specific Test Parameters

Type of Shock Medium	Air-to-Air or Liquid-to-Liquid	
Hot Temperature	Degrees C	
Cold Temperature	Degrees C	
* Hot Soak Time	Time or Specify "Characterize" to determine the stabilization times of the largest thermal mass (please specify which component if known).	
* Cold Soak Time	Time or Specify "Characterize" to determine the stabilization times of the largest thermal mass (please specify which component if known).	
Number of cycles	Number. Note that one cycle includes both a hot and a cold soak plus transitions.	
Transition Time	The default is about 5 seconds. Note that longer transitions mean longer recovery time (time for each box to re-stabilize back to their set temperatures)	

\* Characterize option only available for air-to-air thermal shock.



# Custom Test Specification Template

### 3. Information about the product to be tested

Product Information	Name	Text.	
	Length	Inches.	
	Width	Inches.	
	Height	Inches.	
	Weight	Pounds.	
	Is product other than 6-sides?	Yes/No.	
	Quantity to Test	Number.	
Instrumentation Requirements	Accelerometers	Location.	
	Thermocouples	Location. Temp Range.	
	Electrical	V, I, etc. Location. Grounding.	
	Other	Definition. Location.	
Power and Loading	Product powered during testing?	Yes/No. Specs.	
	Product electrically loaded during testing?	Yes/No. Specs.	
	Product mechanically loaded during testing?	Yes/No. Specs.	
Product Evaluation	When is product evaluated?	When (how often).	
	What are criteria?	Specs.	

4. Special Instructions

5. Scheduling/Time Constraints