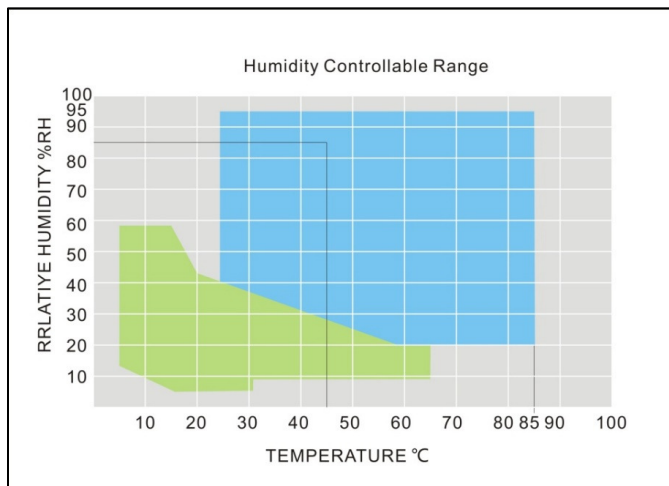


TEMPERATURE AND HUMIDITY TESTING CHAMBERS



QRS CHAMBER TEMPERATURE AND HUMIDITY CONTROLLED RANGE

Temperature and Humidity, with Bias Tests



Common tests conditions for Temperature and Humidity testing are 30 C / 60% rH,85 C,85% rH,and 70 C 85% rH.During these stress tests, the samples are subjected to 500,1000 and more hours of these severe environmental conditions.For extended test durations,samples may be removed every 100,250,500 and 1000 hours to undergo strict visual functional and electrical testing.

Failures in the factory would then be recorded (in terms of yield), and if the batch shows a major failure after these tests, the entire batch is recalled and redesigned with more resilient component materials or robust moisture resistant housing. The factory failures typically save companies 80% to 90% of costs as

compared to field failures whereby the brand of the product may be severely tarnished.

Temperature and Humidity Bias

Temperature and Humidity Bias adds electrical bias to further accelerate the failure modes in time, therefore predicting product/design failure in a much reduced time frame.Biasing for temperature humidity is normally limited to a maximum of 100V and low to negligible power dissipation.

STANDARDS DESCRIPTION

MIL STD 202 Method 103B

MIL STD 750 Method 1021

JESD 22 A 101

Damp Heat

Temperature and Humidity Bias

Temperature and Humidity Bias

INDUSTRIES

Semiconductor, Flexible Circuits

Smart Cards, Modules

Electronic Components

QRS Temperature and Humidity Chambers



Standard Specifications

Temperature

Low Temp(s) : -80,-40,-20,0 C

High Temp(s) :150, 180 C

Temp Stability : +/- 0.5 C

Temp Uniformity : +/- 2 C

Heating Rate : 1 – 3 C / min

Cooling Rate : 0.5 – 2 C / min

Humidity

Operating Humidity Range : 20 – 95%rH

Humidity Fluctuation : +/- 2% rH

Humidity Uniformity : +/- 3 % rH

Controller

TEMI (S Korea) LCD Touch Screen

Can store up to 100 programs, 100 lines

Digital Display of Set and Actual Temperature and Humidities

SD Card for Download of Actual Data

Model Internal Dimensions

	QRS 80	QRS 150	QRS 225	QRS 408	QRS 800	QRS 1000
Width mm	400	500	500	800	1000	1000
Depth mm	400	500	600	600	800	1000
Height mm	500	600	750	850	1000	1000

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