High Power VCSEL Tester

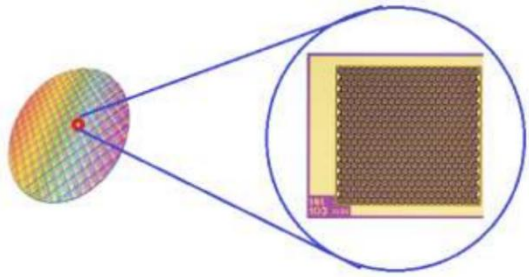
PSS WT-201

PRODUCT INTRODUCTION

Precise high-power VCSEL tester is used for Wafer testing of surface-emitting VCSEL, supports the testing of chip LIV, spectrum, near-field, and far-field related parameters, automatic visual recognition, and fully automatic testing of each chip; support Normal temperature, high temperature dual temperature test, high temperature test temperature can be set by the user. Compatible with a variety of different sizes of Wafer, and open the measurement database to users for subsequent screening processes.

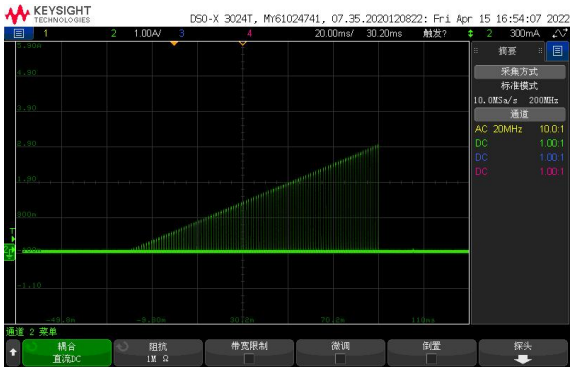
PRODUCT APPLICATION

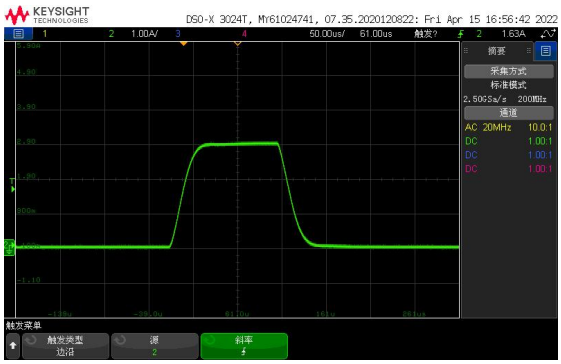
- Typical VCSEL chip tests for applications such as face recognition and automotive radar.
- Verification test of high-power. surface-emitting chips.



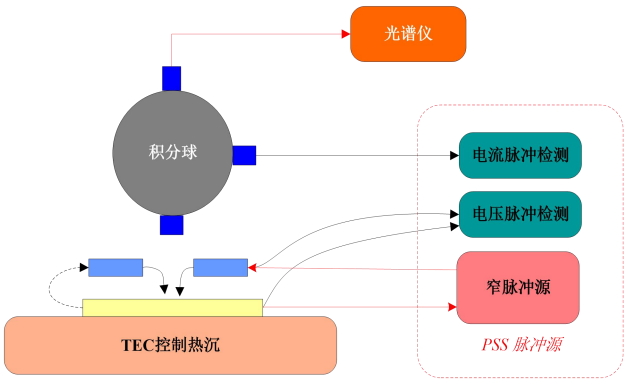
PRODUCT FEATURES

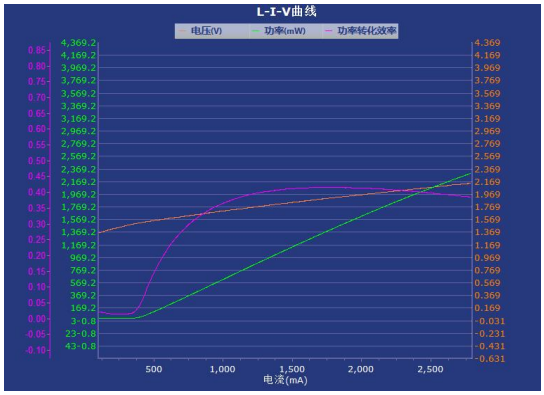
- Integrate self-made ultra-narrow pulse SMU, minimum pulse to 1us, maximum current 30A



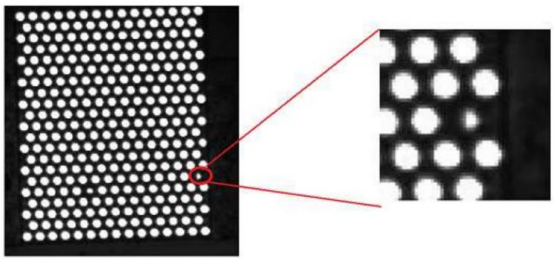


- The integrating sphere collects light synchronously, supporting short pulse LIV test and spectral test.

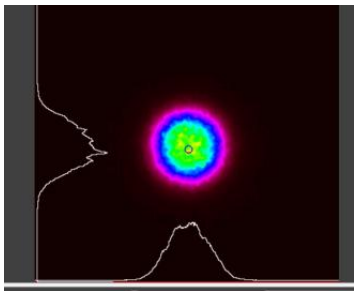


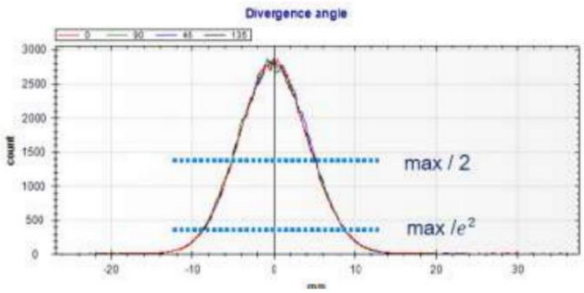


- Support wafer position recognition and automatic adjustment.
- The test platform is made of high thermal conductivity material, TEC temperature control, the temperature range can support 15~100° C.
- Support four-wire voltage test, eliminating the impact of environmental line loss on chip voltage test results.
- Support fast spectrum test.
- Support NF uniformity and bad point detection.

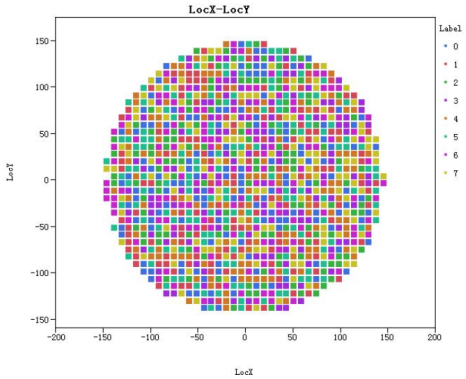


- Support FF test divergence angle test.

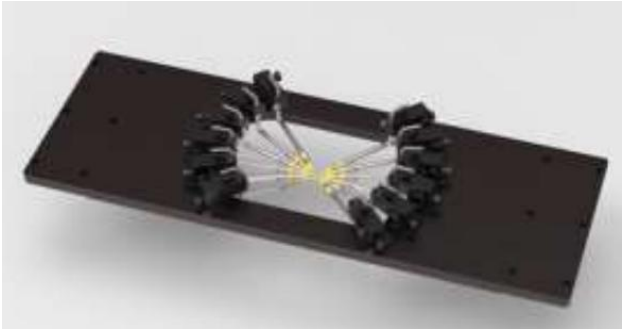




- The software supports the generation of precise positioning maps and coordinate data, and the database automatically stores data and pictures.



- The low-sensitivity high-current probe supports narrow pulse high-current testing.



TECHNICAL PARAMETERS

Parameter	Description/Value
Test type	supports same-plane and different-plane designed VCSEL
LIV main parameters	Ith 、P、Vf、Rs、SE、PCE, Spectral parameters, etc.
Pulse power up	0-30A
DC power up	0-3A
Voltage measurement	0-10V
Near field test	support
Far field test	support
Temperature control	15～100℃
Wavelength range	Support customization
Power supply	AC 220V 50Hz