

Fast Test system for Passive Components

FST series passive components fast testing system provides quick testing solution for directional coupler, power splitter, jumper and attenuator. The system provided quick and precise benchmark measurements including PIM level, VSWR in all terminals, insertion loss, coupling factor deviation, directivity and degree of attenuation. The product has been well recognized by customers.

Product Features

- Autotesting of PIM and S reference points and detailed analysis of measurement data and product qualification
- 10 times quicker than manual Antenna testing, and user friendly
- Autosave function is available for screen and data testing.
- All bands of China Mobile are covered in PIM testing
- Large data storage room
- Bar code scanning
- Measure accurately, high repeatability

Technical Specifications

System

System Components	Multi-band PIM Analyzer Vector network Analyzer Low PIM switch-box Quick test fixture
Testing Terminal	3~5 ×N type test port
User Interface	4×USB, 1×LAN
Display	18" LCD

PIM Analyzer

Testing Band Frequency	800/900/1800/1900/2100/2700M
Power per tone (adjustable)	2×1 to 25W (+30 to +44dBm in 1dB increments)
Power Stability	±0.5dB
Reverse power protection	100W
Third-Order Product	≤-163dBc@2×+43dBm
Measurement Noise Floor	≤-138dBm
Receiving Accuracy	±0.5 @ -100dBm

Low PIM switch-box

VSWR	≤1.12
IM3 Output	-120dBm@2×+43dBm

Quick test fixture

Gas source input	0.4Mpa to 0.6Mpa
Testing cable VSWR	≤1.15 0~3G
IM3 Output	-120dBm@ 2×+43dBm

Mechanical

Dimensions/Weight	19"standard rack / 150Kg
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Environment

Temperature Range	-5°C to +35°C
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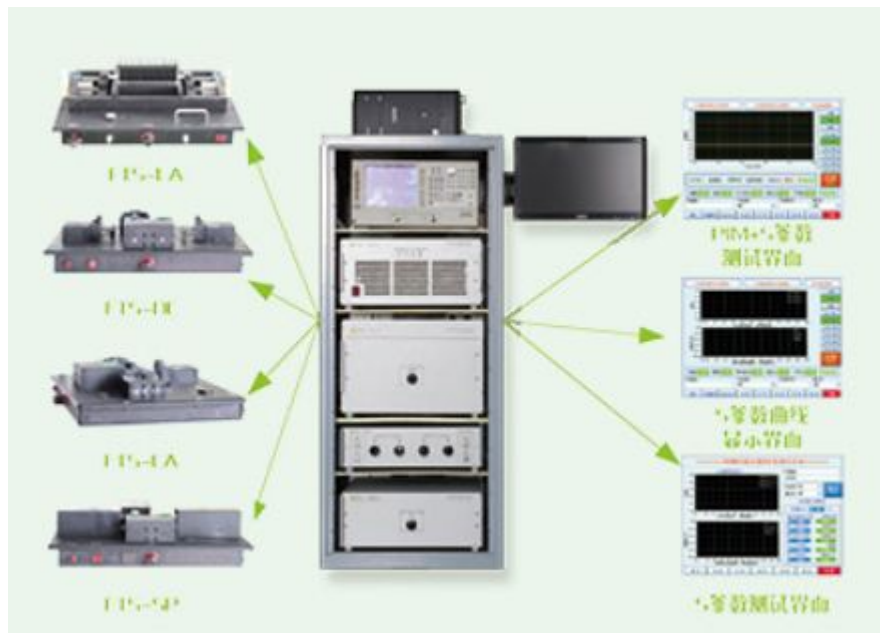
Product Category

	Model Series	Measurement Benchmark
FTS-LA	Coaxial load / attenuator quick testing system	PIM / accuracy VSWR in all terminals/ Pass band Ripple (dB)

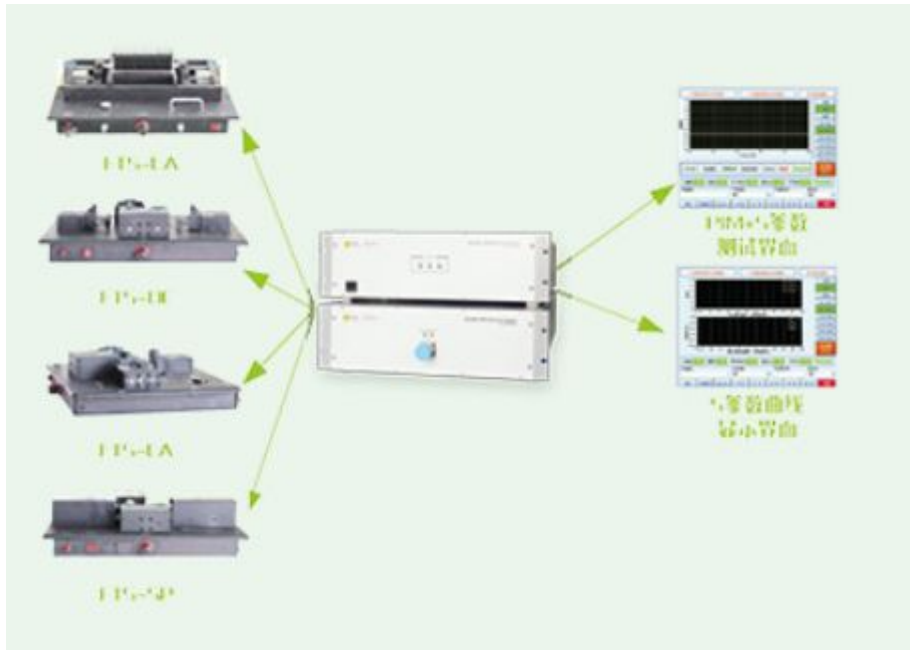
FTS-DC	Directional coupler quick testing system	PIM / accuracy / Insertion Loss / Pass band Ripple (dB) / VSWR / Isolation
FTS-CA	Coaxial cable quick testing system	Insertion Loss / Pass Band Ripple (dB) / VSWR
FTS-SP	Power splitter quick testing system	Insertion Loss / Pass Band Ripple (dB) / VSWR
FTS-C	Customer tailored quick testing system	Customized

*Customized

Sketches



Construction A:IM+S-Parameters integration test construction



Construction B:IM Testing Construction