

HTEST-5P 1-6000 MHz

5-Port Test Set for High-Throughput Production Testing

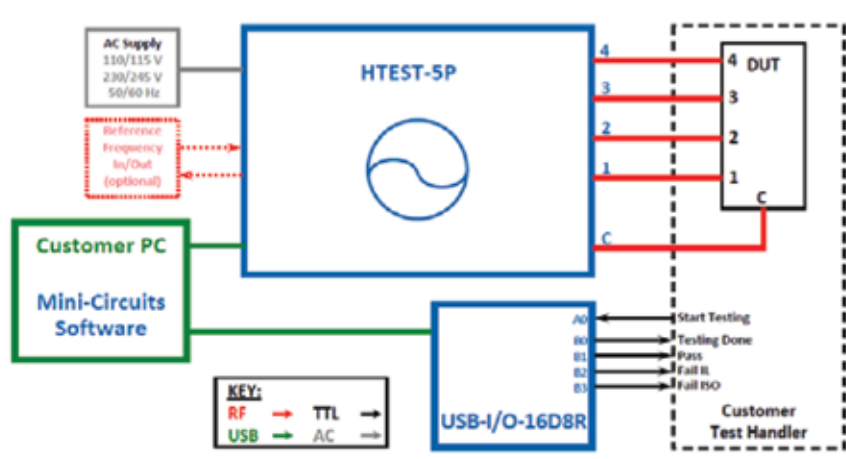
Functional Description

Mini-Circuits developed the HTEST-5P high-speed five-port test set to serve the need for low-cost, high-throughput, focused measurement capability, common in many production testing environments. This unit integrates a synthesized signal generator with switch matrices, power sensors, USB I/O control and special control software to communicate with an external robotic handler. This unit is one example of Mini-Circuits' ability to create a test solution tailored to a specific application within weeks and dramatically reduce test time by employing parallel testing through multiple, simultaneous test paths. This test set can deliver a test throughput of 3,750 units per hour, almost doubling test speed of the system into which it was built. Example shown has 5 ports. Higher port counts and different configurations available on request.

HTEST-5P Test Throughput for a 4-Way Power Splitter

Electrical Test Time (s)	Robotic Handling Time (s)	System Cycle Time (s)	Units Per Hour (#)
0.70	0.26	0.96	3750

Functional Schematic



HTEST-5P GUI Main Screen

Project Setup Help

No. Of Measurements: 27

Seq #	Freq (MHz)	Power (dBm)	Meas Name	TSpec_Dn (dB)	TSpec_Up (dB)	Ref CAL (dB)	Meas. Value (dB)
1	1875	5	1L S-1	-07.85		1.88	-7.03
2	1875	5	1L S-2	-07.85		1.61	-7.22
3	1875	5	1L S-3	-07.85		1.52	-7.16
4	1875	5	1L S-4	-07.85		1.20	-6.93
5	1875	5	ISO 1-2		-15.50	1.79	-23.37
6	1875	5	ISO 1-3		-15.50	1.70	-21.41
7	1875	5	ISO 1-4		-15.50	1.44	-21.51
8	1875	5	ISO 4-2		-15.50	1.03	-21.52
9	1875	5	ISO 4-3		-15.50	0.98	-23.14
10	2100	5	1L S-1	-07.35		1.51	-6.81
11	2100	5	1L S-2	-07.35		1.28	-6.95
12	2100	5	1L S-3	-07.35		1.17	-6.91
13	2100	5	1L S-4	-07.35		0.83	-6.77
14	2100	5	ISO 1-2		-18.50	1.33	-22.99
15	2100	5	ISO 1-3		-18.50	1.24	-21.80
16	2100	5	ISO 1-4		-18.50	0.94	-21.16
17	2100	5	ISO 4-2		-18.50	0.51	-21.79
18	2100	5	ISO 4-3		-18.50	0.48	-22.90
19	2800	5	1L S-1	-07.35		1.02	-6.93
20	2800	5	1L S-2	-07.35		0.79	-7.09
21	2800	5	1L S-3	-07.35		0.69	-7.05
22	2800	5	1L S-4	-07.35		0.32	-7.06
23	2800	5	ISO 1-2		-18.00	0.94	-19.64
24	2800	5	ISO 1-3		-18.00	0.80	-19.20
25	2800	5	ISO 1-4		-18.00	0.43	-18.62
26	2800	5	ISO 4-2		-18.00	0.15	-19.13
27	2800	5	ISO 4-3		-18.00	0.12	-19.55

Note: Insertion Loss Meas. includes the 6dB theoretical loss.

D.I.T. No: 1175

Initialize Run Stop

Calibrate Run Continuously Communicate With Test Handler Machine

Model Name: WP4U1+

Run No.: -

Lot No.: 8327P042SEF4-03

Qty tested: 7972

Tested By: PK

Date Tested: 7 DEC 11

Status: G. Info.

Current Unit: **Ready**

Last Unit: **PASS**

Cycle Time (Sec): 0.65