CheckSum

Switch Module Comparison Guide

CheckSum in-circuit switch modules are used to route stimulus and measurement signals to the unit-under-test (UUT). The UUT can be a bare board, loaded board, or a single component. The modules are installed in a test system chassis. The switch module is one part of a typical system set of modules. Depending on the number of test points in a system, mulitple system chassis may be required. Each system chassis has 20 slots.

To test components in-circuit, in addition to the standard stimulus and measurement signals, remote sense and guard signals are required. Guard signals provide isolation to reduce the impedance effect of the interconnected components.

	TR-6-1	MPX-2-50	MPX-3-200	MPX-5-200
Number of test points per module	50	50	200	200
Switching for 2-wire, 4-wire and 6-wire measurements		✓	✓	✓
Solid-state switching		✓	✓	✓
Solid-state switching plus relay isolation		✓		
Power (+5Vdc & +12Vdc) and discharge (0Vdc) outputs		✓		
Relay switch matrix; 2 by 50 relay bus	✓	✓		
Replaceable components		✓	✓	
Replaceable subassemblies				✓
±12V maximum input voltage			✓	✓
±250V maximum input voltage	✓	✓		
Relay switch matrix (cross point) compatible		✓		
Continuity (CONT) test time 5 to 50 times faster depending on circuit topology				✓
Highest guard ratio				✓
Lowest on-resistance (R_{on}) with improved signal-to-noise ratio				✓
Built-in module quick self-test				✓
Recommended for systems with 2000 or more test points				✓
Analyst *ems* software compatible	✓		✓	✓
Analyst *ems+ft* software compatible		✓	✓	✓
Module self-test	✓	✓	✓	✓

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