

Features and benefits

- Relay type: Electro mechanical
- I/O Connectors: VPC Micro Coax
- Power requirements: 24VDC
- 20 Free Coax External I/Os passthrough



RF switching with technical advantages

The YAVAL034 module contains six multiplexers from 1 to four ports. The format and mounting position of the module give it the two most desired characteristics in test systems:

- Elimination of interconnection RF cabling (Reduced to fixture), with the consequent reduction of insertion losses and standing waves.
- Really "build-to-print". Safe reproduction of results in other test stations.

The fact that it does not need to occupy a space inside the PXI chassis or external switching units, in addition to the economic savings, provides greater space available for other instruments. The module has an internal cycle counter for each of the contacts and a record of their resistance value. It also has an adapter for automatic self-test systems (Self Test Fixture).

The control via CAN bus adds the flexibility of its use even in completely autonomous systems, even within the fixture itself.

Ordering Information

Part Number	Supply contents
YAV91750	2,7 GHz 5x 1 to 4 Multiplexer 50R
Ask	Self test ITA adapter module

Input Characteristics

Parameter	units
30V	Maximum switching voltage
1,0 A	Maximum switching current per channel
1,0 A	Maximum carry current per channel
1 W	Maximum RF Power (1 GHz)
0 dBm	Maximum switch load
< 0,25 Ohm	Inicial DC Patch resistance (Typical)
≥1,0 Ohm	End-of-life DC Patch resistance (Typical)
≥50 * 10 ⁶	Relay durability. Mechanical cycles
≥100.000	Relay durability. Electrical cycles (@ switching frequency 30 Hz)

RF Performance Characteristics

Parameter		
Characteristic Impedance (Z ₀)	≤1 GHz	≤2,7 GHz
Insertion loss ≤ 1 GHz	75 Ohm nominal	
Voltage Standing Wave (VSWR)	<0,5 dB	<2,0 dB
Insolation	<1,4	<1,6
Relays life expectancy	>48 dB	>36 dB

