

**SPDT REFLECTIVE SWITCH MODULE  
0.5 TO 18.0 GHz**

**FEATURES**

- ◆ Broad Frequency Ranges
- ◆ Stripline Compatible
- ◆ Compact Outline
- ◆ Hermetic Package
- ◆ Internal Bias Circuitry


**DESCRIPTION**

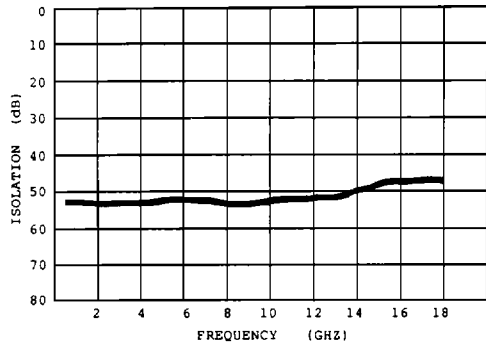
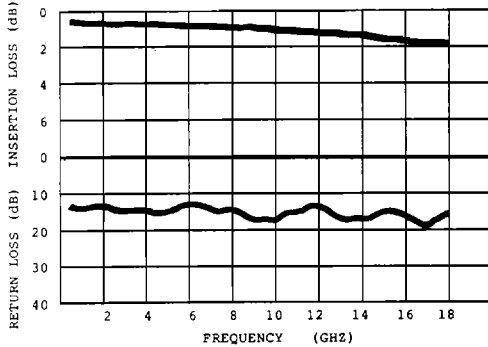
The ML 6530-200 Series of SPDT switch modules from M/A-COM Ltd offers high isolation and low insertion loss in a miniature stripline compatible package. Devices are supplied complete with internal bias network and dc blocks to simplify integration into circuits.

**SPECIFICATIONS @ +25°C**

Frequency Range (GHz)	Max Insertion Loss (dB)	Max VSWR	Min Isolation (dB)	Max Transition Time (ns)	Max Peak Power (W)	Max CW Power (W)	Part Number
0.5 - 2.0	0.8	1.4	60	10	0.1	0.1	ML6533-201
				50	1.0	0.5	ML6533-202
2.0 - 6.0	1.1	1.6	60	10	0.1	0.1	ML6534-201
				50	1.0	0.5	ML6534-202
6.0 - 12.0	1.7	1.8	50	10	0.1	0.1	ML6535-201
				50	1.0	0.5	ML6535-202
12.0 - 18.0	2.1	2.0	40	10	0.1	0.1	ML6536-201
				50	1.0	0.5	ML6536-202
6.0 - 18.0	2.1	2.0	40	10	0.1	0.1	ML6537-201
				50	1.0	0.5	ML6537-202
0.5 - 18.0	2.1	2.0	40	10	0.1	0.1	ML6538-201
				50	1.0	0.5	ML6538-202

Typical Performance

ML6538-202



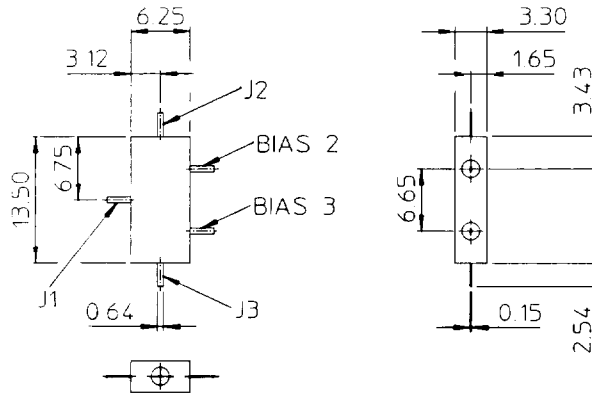
Outline Drawing

Third Angle Projection

All dimensions in mm

Tolerances X.X = ±0.5mm  
X.XX = ±0.2mm

Material: Kovar/Glass with gold plate finish



NOTES:

- 1) Devices contain internal bias network and dc blocking capacitors on both input and output.
- 2) DC bias requirements +1V @ 50mA typical, 100mA maximum for isolation  
(each channel) -1V @ 50mA typical, 100mA maximum for low loss
- 3) Transition time is defined as 10% to 90% detected RF as measured with standard M/A-COM Ltd driver.
- 4) Case operating temperature -55°C to +85°C
- 5) Storage temperature -55°C to +125°C

This data sheet describes a standard range of PIN diode switch modules available from M/A-COM Ltd. An extensive library of non standard devices backed by in-house design and engineering support is available to meet specialised customer requirements, please contact the factory for applications assistance.

All specifications subject to change without notice.

M/A-COM Ltd, Humphrys Road, Dunstable, Bedfordshire, LU5 4SX United Kingdom.

Europe: (44) 1344 869595

North America: 800 366 2266

Asia Pacific: (81) 3 3226 1671