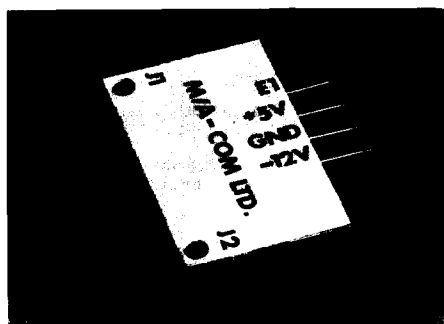


**SPST NON-REFLECTIVE SWITCH MODULE
WITH INTEGRAL TTL COMPATIBLE DRIVER
0.5 TO 18.0 GHz**

FEATURES

- ◆ Broad Frequency Ranges
- ◆ Stripline Compatible
- ◆ Compact Outline
- ◆ Hermetic Package
- ◆ TTL Compatible


DESCRIPTION

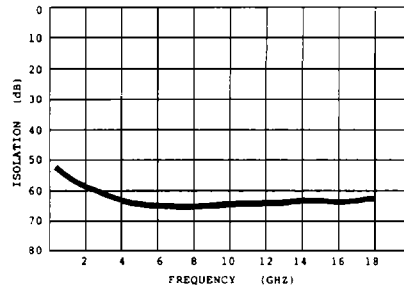
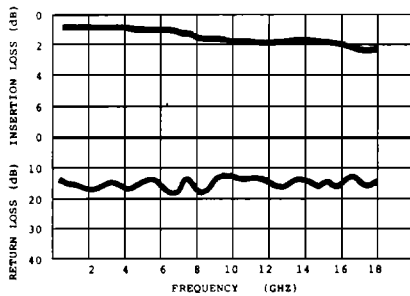
The ML 6540-100D Series of non-reflective switch modules from M/A-COM Ltd offers high isolation and low insertion loss in a miniature stripline compatible package. All the switches have an integral TTL compatible driver, with fast switching or high power handling options available as standard. Control is by single TTL input.

SPECIFICATIONS @ +25°C

Frequency Range (GHz)	Max Insertion Loss (dB)	Max VSWR	Min Isolation (dB)	Max Transition Time (ns)	Max Switching Speed (ns)	Max Peak Power (W)	Max CW Power (W)	Part Number
0.5 - 2.0	1.0	1.4	50	10	30	0.1	0.1	ML6543-101D
				50	250	1.0	0.5	ML6543-102D
2.0 - 6.0	1.4	1.6	55	10	30	0.1	0.1	ML6544-101D
				50	250	1.0	0.5	ML6544-102D
6.0 - 12.0	2.1	1.8	60	10	30	0.1	0.1	ML6545-101D
				50	250	1.0	0.5	ML6545-102D
12.0 - 18.0	2.6	2.0	60	10	30	0.1	0.1	ML6546-101D
				50	250	1.0	0.5	ML6546-102D
6.0 - 18.0	2.6	2.0	60	10	30	0.1	0.1	ML6547-101D
				50	250	1.0	0.5	ML6547-102D
0.5 - 18.0	2.6	2.0	50	10	30	0.1	0.1	ML6548-101D
				50	250	1.0	0.5	ML6548-102D

Typical Performance

ML6548-102D



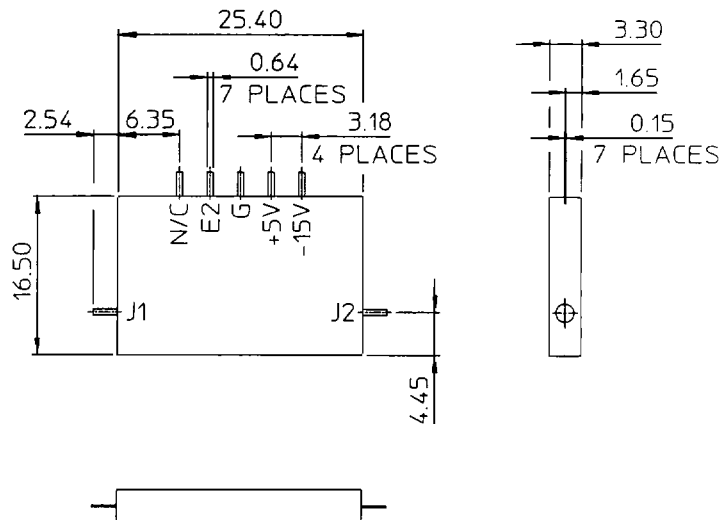
Outline Drawing

Third Angle Projection

All dimensions in mm

Tolerances X.X = $\pm 0.5\text{mm}$
 X.XX = $\pm 0.2\text{mm}$

Material: Kovar/Glass with
 gold plate finish



NOTES:

- 1) J1 is RF input (non reflective), J2 is RF output.
- 2) Power supplies required +5V @ 50mA maximum, -15V @ 50mA maximum
- 3) E2 is TTL control input. TTL Logic '0' is low loss, TTL Logic '1' is isolation
- 4) TTL Logic '0' is 0 to 0.8V, TTL Logic '1' is 2.0 to 5.5V
- 5) Transition time is defined as 10% to 90% detected RF. Switching speed is defined as 50% TTL to 90% detected RF
- 6) Case operating temperature -55°C to +85°C
- 7) 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.

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