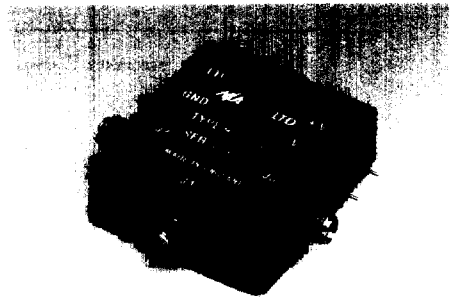


SPDT NON-REFLECTIVE SWITCH
WITH TTL COMPATIBLE DRIVER
0.5 TO 18.0 GHz

FEATURES

- ◆ Broad Frequency Ranges
- ◆ High Isolation
- ◆ SMA Connectors
- ◆ Hermetically Sealed
- ◆ TTL Compatible



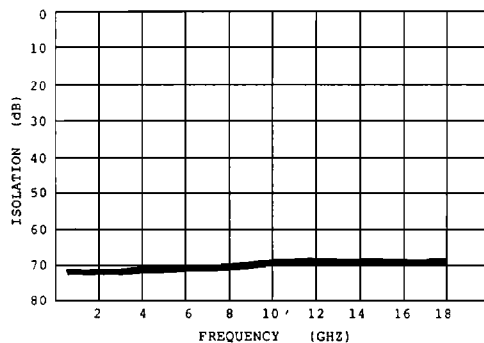
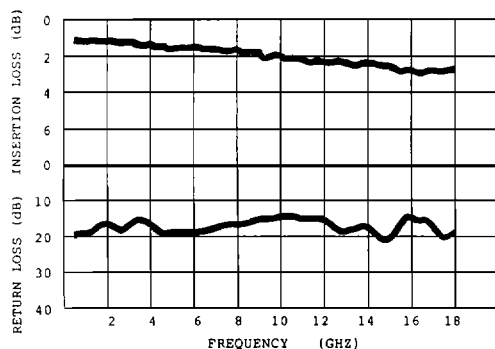
DESCRIPTION

The ML 6520-200D Series of SPDT non-reflective switches from M/A-COM Ltd offers high isolation and low insertion loss in a standard outline. All the switches have an integral TTL compatible driver with fast switching or higher power handling options available as standard. Standard switches have independent TTL control, single TTL control is available as an option. Devices are supplied with SMA male or female connectors.

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	1.4	1.4	65	10	30	0.1	0.1	ML6523-201D
				50	250	1.0	0.5	ML6523-202D
2.0 - 6.0	1.8	1.6	65	10	30	0.1	0.1	ML6524-201D
				50	250	1.0	0.5	ML6524-202D
6.0 - 12.0	2.6	1.8	65	10	30	0.1	0.1	ML6525-201D
				50	250	1.0	0.5	ML6525-202D
12.0 - 18.0	3.1	2.0	60	10	30	0.1	0.1	ML6526-201D
				50	250	1.0	0.5	ML6526-202D
6.0 - 18.0	3.1	2.0	60	10	30	0.1	0.1	ML6527-201D
				50	250	1.0	0.5	ML6527-202D
0.5 - 18.0	3.1	2.0	60	10	30	0.1	0.1	ML6528-201D
				50	250	1.0	0.5	ML6528-202D

ML6528-202D



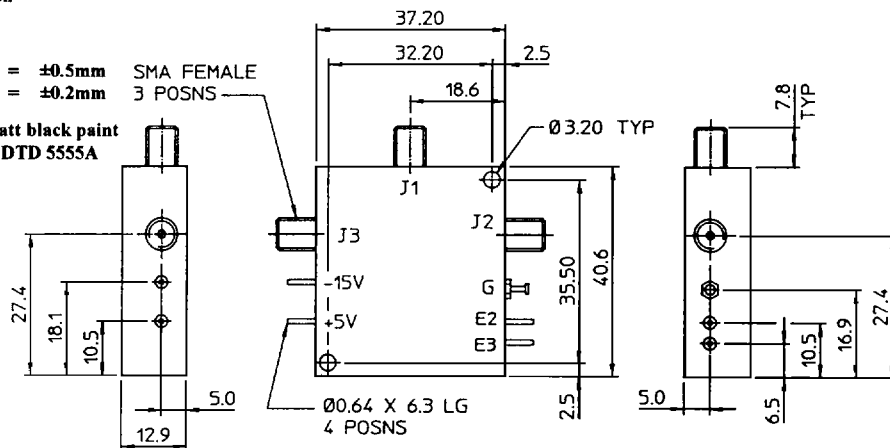
Outline Drawing

Third Angle Projection

All dimensions in mm

Tolerances X.X = $\pm 0.5\text{mm}$ SMA FEMALE
 X.XX = $\pm 0.2\text{mm}$ 3 POSNS

Standard Finish: Matt black paint to DTD 5555A



NOTES:

- 1) J1 is RF common, J2, J3 are RF input/outputs (non reflective)
- 2) Power supplies required +5V @ 70mA maximum, -15V @ 50mA maximum. Other combinations available on request, please contact the factory for further details.
- 3) E2, E3 are independent TTL control inputs. For each channel TTL Logic '0' is low loss, TTL logic '1' is isolation.
 For single TTL control using pin E2 only, with TTL '0' J1-J2 low loss and, TTL '1' J1- J3 low loss add 'S' as suffix to the part number when ordering. e.g. ML6528-201DS.
- 4) TTL logic '0' is 0 to 0.8V, TTL logic '1' is 2.0 to 5.5V
- 5) Any combination of SMA male/female connectors is available.
- 6) Transition time is defined as 10% to 90% detected RF Switching time is defined as 50% TTL to 90% detected RF
- 7) Case operating temperature -55°C to +85°C
 Storage temperature -55°C to +125°C

This data sheet describes only a small selection of the PIN diode switches available from M/A-COM Ltd. An extensive library of 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