

Keysight L-Series EM Switches



L7104A/B/C, L7204A/B/C, L7106A/B/C, L7206A/B/C and L7222C

Keysight's L-Series switches offer high-performance capability at a fraction of the cost. For example, 40% cheaper than Keysight's high-performance switches, the L-Series offers 0.03 dB insertion loss repeatability guaranteed up to 2 million cycles and exceptional isolation. Keysight's low-cost switches provide the performance you need from DC to 26.5 GHz.

Superior performance with guaranteed specifications to 26.5 GHz

- **Guaranteed performance:**
< 0.03 dB insertion loss repeatability guaranteed for 2 million cycles
- **Long operating life:**
5 million cycles (typical)
- **High isolation:**
Typically > 85 dB at 26.5 GHz
- **Unique design:**
Wiping action mechanism eliminates particle buildup to ensure reliable switching
- **Broad frequency range:**
DC to 4, 20, or 26.5 GHz
- **Economical price:**
Minimizes budgetary constraints

RF & microwave coaxial fixed attenuators

| Model | Frequency | Termination | Average power | Peak power | Isolation | Insertion loss | SWR | Speed | Life cycle | Driving voltage | RF connectors |
|-----------------|----------------|--------------|---------------|------------|-----------|----------------|------|-------|------------|-----------------|---------------|
| SP4T | | | | | | | | | | | |
| L7104A | DC to 4 GHz | Terminated | 1 W | 50 W | 90 dB | 0.36 dB | 1.2 | 15 ms | 2 million | 24 Vdc | SMA (f) |
| L7204A | DC to 4 GHz | Unterminated | 2 W | 100 W | 90 dB | 0.36 dB | 1.2 | 15 ms | 2 million | 24 Vdc | SMA (f) |
| L7104B | DC to 20 GHz | Terminated | 1 W | 50 W | 90 dB | 0.6 dB | 1.45 | 15 ms | 2 million | 24 Vdc | SMA (f) |
| L7204B | DC to 20 GHz | Unterminated | 2 W | 100 W | 90 dB | 0.6 dB | 1.45 | 15 ms | 2 million | 24 Vdc | SMA (f) |
| L7104C | DC to 26.5 GHz | Terminated | 1 W | 50 W | 60 dB | 0.7 dB | 1.7 | 15 ms | 2 million | 24 Vdc | SMA (f) |
| L7204C | DC to 26.5 GHz | Unterminated | 2 W | 100 W | 60 dB | 0.7 dB | 1.7 | 15 ms | 2 million | 24 Vdc | SMA (f) |
| SP6T | | | | | | | | | | | |
| L7106A | DC to 4 GHz | Terminated | 1 W | 50 W | 90 dB | 0.36 dB | 1.2 | 15 ms | 2 million | 24 Vdc | SMA (f) |
| L7206A | DC to 4 GHz | Unterminated | 2 W | 100 W | 90 dB | 0.36 dB | 1.2 | 15 ms | 2 million | 24 Vdc | SMA (f) |
| L7106B | DC to 20 GHz | Terminated | 1 W | 50 W | 90 dB | 0.6 dB | 1.45 | 15 ms | 2 million | 24 Vdc | SMA (f) |
| L7206B | DC to 20 GHz | Unterminated | 2 W | 100 W | 90 dB | 0.6 dB | 1.45 | 15 ms | 2 million | 24 Vdc | SMA (f) |
| L7106C | DC to 26.5 GHz | Terminated | 1 W | 50 W | 60 dB | 0.7 dB | 1.7 | 15 ms | 2 million | 24 Vdc | SMA (f) |
| L7206C | DC to 26.5 GHz | Unterminated | 2 W | 100 W | 60 dB | 0.7 dB | 1.7 | 15 ms | 2 million | 24 Vdc | SMA (f) |
| Transfer | | | | | | | | | | | |
| L7222C | DC to 26.5 GHz | Unterminated | 1 W | 60 W | 57 dB | 0.9 dB | 1.65 | 15 ms | 2 million | 24 Vdc | SMA (f) |

For more details on the Keysight EM switches and ordering information see the “Keysight RF and Microwave Switch Selection Guide”, literature number 5989-6031EN

For more information on Keysight switches, please visit www.keysight.com/find/switches

Download or order from www.keysight.com/find/mta

To find a distributor in your area, go to: www.keysight.com/find/distributors

Three-Year Warranty

www.keysight.com/find/ThreeYearWarranty

Keysight’s commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.

Keysight Assurance Plans

www.keysight.com/find/AssurancePlans

Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.



L-Series EM switch options

| Model | Option type | Option | Option description |
|---|---------------|--------|---|
| L7104A/ L7204A/ L7104B/ L7204B/ L7104C/ L7204C/ L7106A/ L7206A/ L7106B/ L7206B/ L7106C/ L7206C | Control logic | T24 | TTL/5V CMOS compatible logic with 24 Vdc supply |
| | | 024 | 24 Vdc |
| L7106A/ L7206A/ L7106B/ L7206B/ L7106C/ L7206C | DC connectors | 161 | Ribbon receptacle |
| | | 100 | Solder terminals |
| L7222C | DC connectors | 161 | 10-PIN DIP |
| | | 100 | Solder terminals and 10-PIN DIP |
| | Accessories | 201 | Mounting brackets; assembly required |