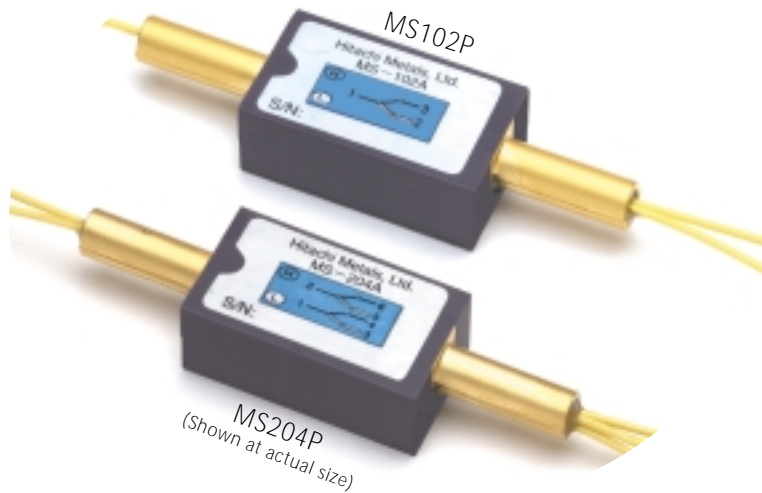


FIBER OPTICAL SWITCHES

MS102P & MS204P



OPTICAL SWITCHES

Hitachi Metals designs and manufactures a new breed of mechanical optical switches known as MS Series. Led by state of the art technologies, MS Series support the emerging optical network communications market.

The MS Series offer intelligent optical network capability with high transparency performance.

Combined with a reduced physical package size, flexibility and scalability. Hitachi optical switches improve overall system cost. There are several applications using the MS Series products, such as protection/restoration, re-configurable optical add/drop multiplexing (OADM), optical cross connect (OXC), optical spectral monitoring (OSM) and other switch fabrications to meet a global demand of large bandwidth network.

PRODUCTS

Model	MS102P	MS204P
Configuration	1x2	Dual 1x2
Application	Protection Test equipment	Add/drop Protection

FEATURES

- High transparency
- Wide range wavelength
- Fast switching speed
- High reliability with stick-free switch
- Telcordia GR-1221 and GR-1073 passed
- Small footprint
- Self latching system
- PCB mountable
- Self station monitoring

SPECIFICATIONS **MS102P** **MS204P**

Parameter		MS102P	MS204P
Insertion Loss*1	(dB)	0.7 max	0.7 max
Return Loss*1	(dB)	55 min	55 min
Cross-Talk	(dB)	-80 max	-80 max
PDL	(dB)	0.05 max	0.05 max
Repeatability*2	(dB)	±0.02	± 0.02
Durability	(cycles)	10 million min	10 million min
Switching time*3	(msec)	5 max	5 max

Note

*1 Measured in C&L band at room temperature excluding connectors

*2 Referenced @ 10,000 cycles excluding connector

*3 Switch operating power 5V with 10 msec pulse

OPERATING CONDITIONS

Wavelength	980 nm and 1285 through 1610 nm
Switch Power*1	2~5V/±80~200mA
Soldering Heat Resistance	250 deg. C max. x 5 sec max.
Operating Temperature	-5~70 deg. C
Storage Temperature	-40~85 deg. C
Humidity	15~85% R.H. (no condensing)
Connector*2	SC, FC, LC, MU
Fiber	SM(9/125), MM(62.5/125) and (50/125)*3

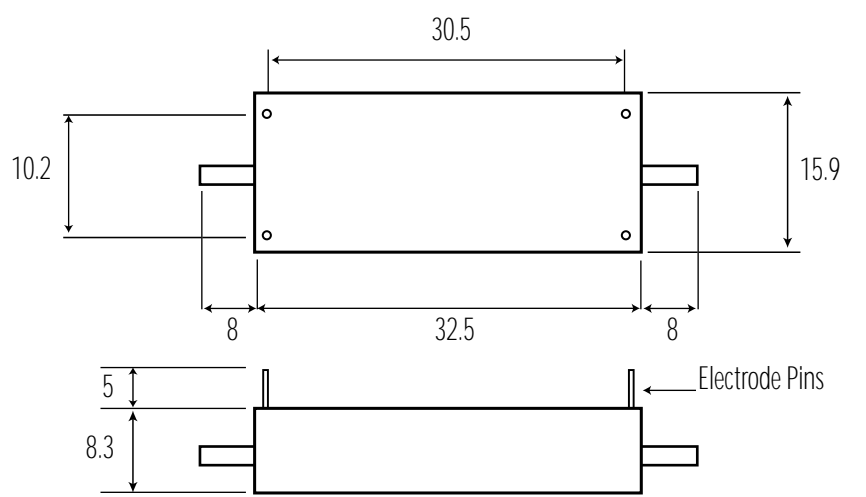
Note

*1 Operated by two pins current reversal with 4 msec pulth width min. (10 msec recommended)

*2 Any type connectors available upon request

*3 SCxSMx1m is standard

PACKAGING DIMENSIONS



dimensions in mm.

About Hitachi Metals America, Ltd.

Hitachi Metals America, Ltd., now entering its fourth decade of operations in the U.S is a wholly owned subsidiary of Tokyo-based Hitachi Metals, Ltd. one of the major members of the Hitachi Group companies. The company's growth is a reflection of its strong marketplace acceptance. This results from a combination of advanced technology, superior customer service and the ability to provide custom-designed products that meet the exact needs and specifications of customers.

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