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Optical Link 80 Hz to 3.5 GHz



The optical link is designed for the transmission of analogue electric signals (CW and pulses) from 80 Hz to 3.5 GHz. The signal is conditioned and converted into an analogue optical signal in the transmitter module and is sent to the optical receiver through a fibre optic cable. The receiver module converts back the optical signal into an electrical signal. Both transmitter and receiver modules are shielded and are powered with embedded rechargeable batteries. The receiver includes an automatic gain control to maintain precise and constant performance. The optical link is typically used in measurement set-ups using electric or magnetic field sensors or with current probes.

SPECIFICATIONS

Type	MOL3000
Bandwidth (± 1.5 dB)	80 Hz to 3.5 GHz
Link gain	0 dB \pm 1.0 dB (80 Hz - 2.2 GHz) 0 dB \pm 1.5 dB (2.2 - 3.5 GHz)
Maximum transmitter input (for < 0.2 dB gain compression)	0 dBm (632 mV _{p-p})
Receiver output noise floor	< -137 dBm/Hz
Transmitter equivalent input noise	< -137 dBm/Hz
Immunity to external electric fields	> 500 kV/m (pulse according to MIL-Std 461 RS105 E/F)
Operating time (transmitter / receiver)	19 hours / standby: about 1 week
ESD protection	according to IEC61000-4-2 (15 kV)
Input / output connectors	SMA female
Dimensions (excluding connectors)	99 x 64 x 41 mm (L x W x H)
Weight	380 gr

Cable type	Reference	Length
Standard	FCLBxxxx	10, 20, 50, 100, 200, 500, 1000 m
Rugged	FCLBxxxxRU	10, 20, 50, 100, 200, 500, 1000 m



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FREQUENCY RESPONSE

