

# LAP TRIGGER

## LTX-310B Microwave Transmitter



LTX-310B is a self-contained microwave transmitter for use with the LRX-310B receiver. The output is pulse modulated to identify one of 36 channels arranged in six groups of six. The group is set at the factory and you can select one of the six channels in that group from an external rotary switch.

The internal, sealed, lead-acid battery typically produces 8 hours of operation. An additional external battery can be connected for longer durations. The unit has a threaded socket for tripod mounting. A key switch is provided to allow unattended operation. LTX-310B is not suitable for mounting in a vehicle.

### Electrical

- Operating supply 8.0 to 14.4V DC
- Battery charging supply 13.8 to 14.4V DC not to exceed 0.8A (key switch can be on or off)
- LED indicates power on
- Operating centre frequency 10.6  $\pm$ 0.05GHz
- RF Bandwidth <10MHz
- Output power +14 to +17dBm peak power input to antenna
- Beamwidth 3dB 18° (approx) horizontal and vertical
- Beamwidth 10dB 30° (approx) horizontal and vertical
- Antenna gain 20dBi  $\pm$ 1 dB
- Range approximately 82' (when properly aligned)
- Polarisation linear vertical
- Channel identification by modulation frequency (see Application Note for values)

### Electro Magnetic Compatibility

The unit has been designed and manufactured such that:

- The electromagnetic disturbance generated does not exceed the level above which radio and other equipment operating outside the RF band used by the LTX-310B cannot operate as intended;
- It has a level of immunity to the electromagnetic disturbance to be expected in its intended use which allows it to operate without unacceptable degradation of its intended use.

A site-specific radio licence should be obtained before the LTX-310B unit is operated outside an electromagnetically sealed environment.

### Application

- Lap trigger timing when used with LRX-310B receiver

### Service

- Recommended service interval 24 months (internal battery is replaced)

### Cable and Connection Definition

- Connection ASL0-06-05SN-HE

Pin 1	Battery supply +ve
Pin 2	Ground
Pins 3, 4, 5	N/C

- Mating connector ASL6-06-05PN-HE

### Mechanical

- Case material Aluminium alloy, painted black, stippled epoxy polyester
- Antenna cover epoxy glass fibre composite
- Weight 3.6kg including cover and internal battery

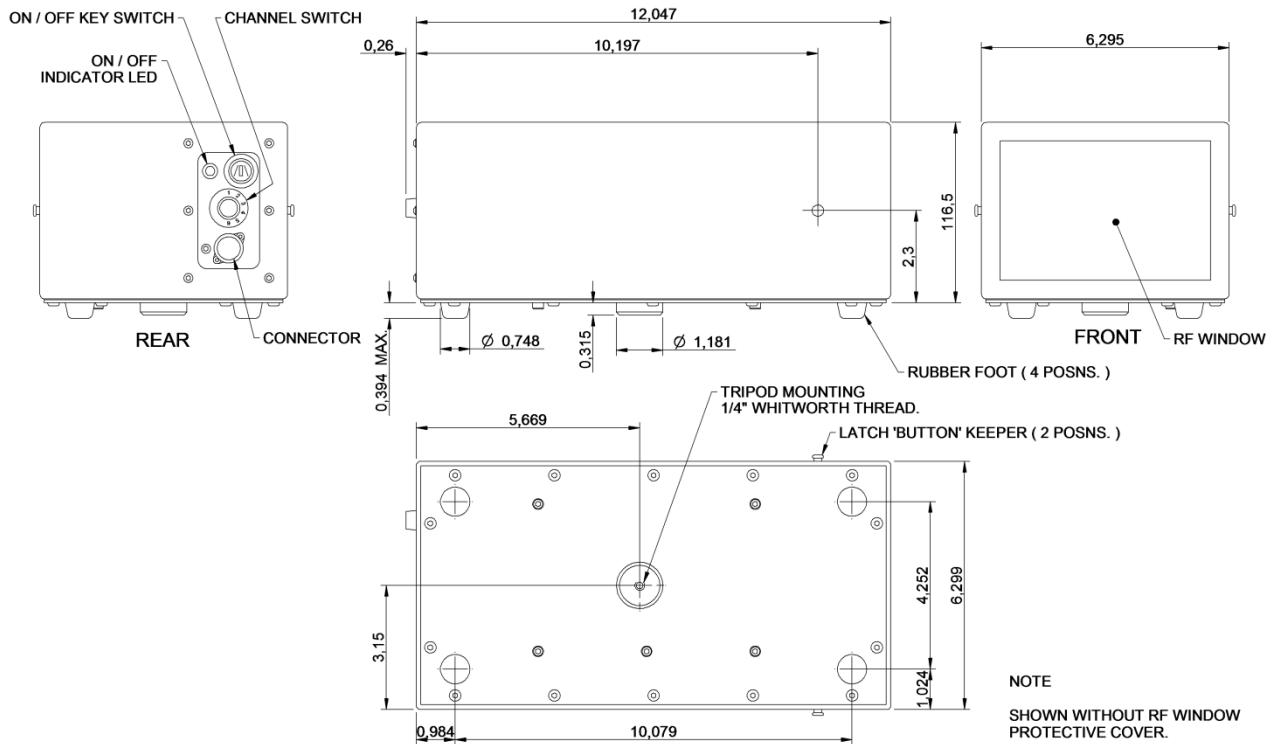
### Environmental

- Splash resistant to standard motorsport fluids
- Maximum humidity 100%
- Operating Temperature 32°F to 122°F
- Storage temperature -4°F to 122°F
- Store with battery charged. Top up charge every three months if unit is not being used.

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Description	Order Code
LTX-310B Microwave Transmitter	O 030 030 001 004

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