

RLC-MOT

Technical Specifications

RLC-MOT specifications:

- Module Current Draw: 36mA (With LED lit), 31mA standby
- Operating Voltage: +11V..+15V

Applications:

- 1) Adds a fast action Motorola M7716 squelch circuit to any FM radio
 - The RLC-MOT board was designed to add high speed squelch action with weak signal hysteresis on a small in-radio module. The interface is designed to fit inside the receiver section of your repeater or link receiver. The RLC-MOT will generate a stable but fast COR output to drive your system's controller. The audio muting function will mute the discriminator audio input, and the dual output COR generator will interface to any system controller.

Installation Directions:

- 1) Connect +11V..+15V to pin #1, connect ground to pin #6
- 2) Locate the discriminator audio point on your receiver
 - This point is usually located on the high side of the squelch pot
 - Discriminator audio needs to be unsquelched audio, before the de-emphasis circuit
 - Connect discriminator audio to pin #2 of the RLC-MOT module
- 3) Squelched audio out is provided on pin #3
 - Squelch level adjustment is provided by the long narrow 20-turn pot marked "Squelch"
 - Audio output level is adjusted by the small pot located on the RLC-MOT module
 - Special care is needed when using this pot because it has no stops in the adjustment rotation
- 4) COR outputs are provided on pins #4,#5
 - Active high COR output is on pin #5
 - Active low COR output is on pin #4
 - When a valid COR is present the on-board red LED will light

Important considerations when installing the RLC-MOT

- 1) Determine your controller's active COR level. Link Communications Inc. controllers default to active low
- 2) Make sure your audio feeding the RLC-MOT is discriminator, unsquelched audio
- 3) If you have problems or questions please contact Link Communications Inc.

Warranty:

Link Communications Inc. warrants that its products will be free from defects in materials and workmanship for a period of one year from the date of shipment. During this time, Link Communications Inc. will cover parts, labor and return shipping. If failure is caused by instances other than manufacturing defects, Link Communications Inc. will repair the product and bill the customer for parts and labor.

What Link Communications Inc. will not cover:

1. Too much voltage to the delay module. The RLC-MOT operates at +11V to +15V, negative ground.
2. Damage to the squelch module by lightning, accident, or incorrect power hook-up.
3. Incorrect unit installation.
4. Damage caused by shipment (damage claims are handled by the carrier).
5. Repairs by other than Link Communications Inc.