

LC and LR Transmitter Module Comparison

Linx Technologies' new LR Series transmitter offers more stable performance over various antenna loads and a higher data rate in the same package as the LC Series transmitter, but the pin-out is slightly different. Pin 4 is the Level Adjust pin for both modules, but this gets connected to ground on the LC and to Vcc on the LR. Pin 8 is ground on the LC and is Power Down for the LR and should be connected to Vcc to activate the module. All other pins are the same for both modules. For data sheets and user manuals, please see the Linx website at www.linxtechnologies.com.

Specifications Comparison Chart

| Parameter | LC | | | LR | | |
|----------------------------------|-----|--------|-------|-----|--------|--------|
| | Min | Typ | Max | Min | Typ | Max |
| Supply Voltage (V) | 2.7 | — | 5.2 | 2.1 | 3.0 | 3.6 |
| Supply Current (mA) † | | | | | | |
| 50% Duty Cycle | — | 1.5 | — | — | 3.4 | — |
| Logic High | — | 3 | 6 | — | 5.1 | — |
| Logic Low | — | 0 | — | — | 1.8 | — |
| Sleep Current (µA) | — | — | 1.5 | — | 0.005 | — |
| Transmit Frequency Range (MHz) | | | | | | |
| TXM-315-L* | — | 315 | — | — | 315 | — |
| TXM-418-L* | — | 418 | — | — | 418 | — |
| TXM-433-L* | — | 433.92 | — | — | 433.92 | — |
| Data Bandwidth (bps) | 100 | — | 5,000 | DC | — | 10,000 |
| Center Frequency Accuracy (kHz) | -75 | — | +75 | -50 | — | +50 |
| Output Power (dBm) † | -4 | 0 | +4 | -4 | 0 | +4 |
| Harmonic Emissions (dBc) | — | — | -36 | — | — | -36 |
| Output Power Control Range (dBm) | -7 | — | 0 | -80 | — | +10 |
| Modulation Delay (µSec) | — | 30 | — | — | — | 0.03 |
| Operating Temperature Range (°C) | -30 | — | +70 | -40 | — | +85 |

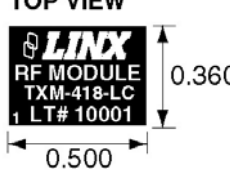
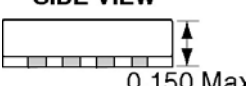
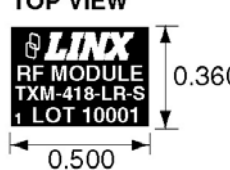
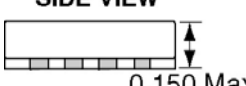
† LC = 430Ω resistor on LADJ, LR = 750Ω resistor on LADJ

Pin-out Comparison

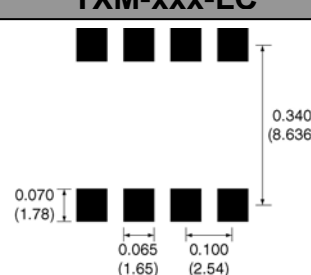
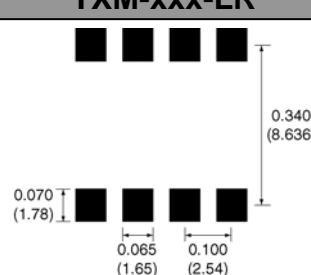
| TXM-xxx-LC | |
|------------|--------------|
| 1 | GND |
| 2 | DATA |
| 3 | GND |
| 4 | LADJ/GND ANT |
| 5 | ANT |
| 6 | GND |
| 7 | VCC |
| 8 | GND |

| TXM-xxx-LR | |
|------------|--------------|
| 1 | GND |
| 2 | DATA |
| 3 | GND |
| 4 | LADJ/VCC ANT |
| 5 | ANT |
| 6 | GND |
| 7 | VCC |
| 8 | PDN |

Package Comparison

| TXM-xxx-LC | TXM-xxx-LR |
|--|--|
| <p>TOP VIEW</p>  <p>0.360</p> <p>0.500</p> <p>SIDE VIEW</p>  <p>0.150 Max.</p> | <p>TOP VIEW</p>  <p>0.360</p> <p>0.500</p> <p>SIDE VIEW</p>  <p>0.150 Max.</p> |

PCB Footprint

| TXM-xxx-LC | TXM-xxx-LR |
|---|--|
|  <p>0.070 (1.78)</p> <p>0.065 (1.65)</p> <p>0.100 (2.54)</p> <p>0.340 (8.636)</p> |  <p>0.070 (1.78)</p> <p>0.065 (1.65)</p> <p>0.100 (2.54)</p> <p>0.340 (8.636)</p> |

LR Series Part Numbers

| PART # | DESCRIPTION |
|------------|--------------------|
| TXM-315-LR | Transmitter 315MHz |
| TXM-418-LR | Transmitter 418MHz |
| TXM-433-LR | Transmitter 433MHz |



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