



# DR4101

## 315.00 MHz Transmitter Module



- **Designed for Short-Range Wireless Data Communications**
- **Supports up to 115.2 kbps Encoded Data Transmissions**
- **3 V, Low Current Operation plus Sleep Mode**
- **Ready to Use OEM Module**

The DR4101 transmitter module is ideal for short-range wireless data applications where robust operation, small size and low power consumption are required. The DR4101 utilizes RFM's TX5001 amplifier-sequenced hybrid (ASH) architecture to achieve this unique blend of characteristics. The transmitter includes provisions for on-off keyed (OOK) and ASK modulation. The transmitter employs SAW filtering to suppress output harmonics, facilitating compliance with FCC 15.249 and similar regulations. The DR4101 includes the TX5001 plus all configuration components in a ready-to-use PCB assembly, excellent for prototyping and intermediate volume production runs.

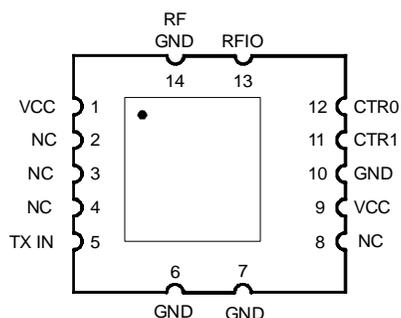
### Absolute Maximum Ratings

Rating	Value	Units
Power Supply and All Input/Output Pins	-0.3 to +4.0	V
Non-Operating Case Temperature	-50 to +100	°C
Soldering Temperature (10 seconds)	230	°C

### Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Operating Frequency	$f_o$		314.8		315.2	MHz
Data Rate		OOK			19.2	kbps
		ASK			115.2	
Transmitter Performance (OOK @ 2.4 kbps)						
Peak Input Current, 3 Vdc Supply	$I_{TP}$				12	mA
Peak Output Power	$P_O$			0.75		mW
Turn On/Turn Off Time	$t_{ON}/t_{OFF}$				12/6	$\mu$ s
Power Supply Voltage Range	$V_{CC}$		2.7		3.5	Vdc
Operating Ambient Temperature	$T_A$		-20		+65	°C

DR4101 Pin Out



DR4101 Outline Drawing

