

Furon Ltd

Preliminary Information
Issue dc/315rx spec\1

315 MHz FM Superhet Receiver Specification

Performance Data at 25 degrees C

Parameter	Min	Typ	Max
Operating Supply Range	3.0V	-	9.0V
Supply Current --Vcc 5V		16mA	
Receiver frequency		433.92MHz	
Sensitivity		-109dbm±1db	
Carrier detect threshold		109dbm±1db	
RF impedance		50Ω	
IF bandwidth		250KHz	
AF bandwidth	60Hz	-	2KHz
Data output levels at Vcc 5V			
HIGH	3.5V		4.6V
LOW	0V		0
Data settling time		12mS±4mS	
Local carrier detect pin			
When carrier detected	>3.5V		
When carrier not detected			<8.0V
LO leakage		-57dbm±3db	
Operating Temperature	-10°C		+45°C

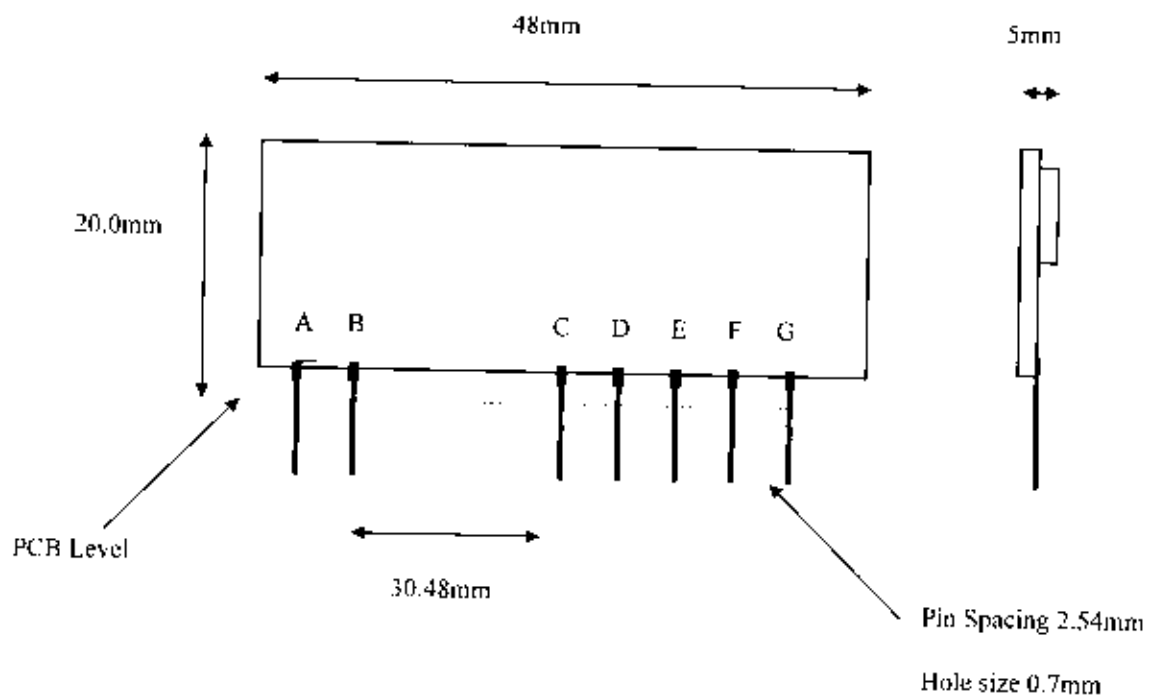
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Mechanical Specification



Pin	Function	Description
A	RF IN	Antennae connected input - nom. 50Ω RF impedance
B	RF GND	RF Ground also internally connected to pin D
C	DETECT	When used with external transistor can give carrier detect signal.
D	0V GND	'0' volt connection for supply and Data input.
E	Vcc	Supply 3.0V to 9.0V dc. Must be free of noise
F	AF OUT	Demodulated output
G	DATA	Digital data. Used to drive data decoders.