IC Matching information (Texas Instruments Incorporated.)

CC1101: Low-Power Sub-1 GHz RF Transceiver

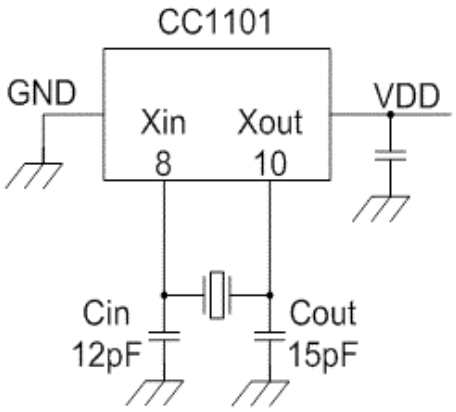
[IC Information] Click Here

CC1101	
Frequency Range	Sub1-GHz
Device Type	Smart RF Transceiver
RX Current (Lowest) (mA)	14.4
Current consumtion in power down mode (uA)	0.2
Modulation Techniques	2-FSK
	4-FSK
	GFSK
	MSK
	OOK
	ASK
Sensitivity (Best) (dBm)	-116

Details of Matching Test

Test IC : CC1101

1. CIRCUIT DIAGRAM



IC Name	CC1101
VDD	+3.3V

2. *Circuit characteristics for recommended circuit parameters. (Cin=12pF, Cout=15pF)

VDD(V)	Frequency Deviation dF/F(×10^{-6})	Negative Resistance -R(Ω)	Drive Level DL(uW)
+3.3	-8	1440	10

NDK Crystal

Model : NX3225GA Frequency : 26.000MHz Load capacitance : CL=10pF

Please use below Ordering Code for specifying this crystal.

Ordering Code	EXS00A-CG01972

Note

Negative Resistance
The recommended oscillation margin based on empirical results which is necessary to ensure the crystal's ability to start and maintain stable oscillation.

Drive Level
Electric-power or current level under the specified conditions of a crystal unit.
If the specified maximum drive level of the crystal is exceeded, this may result in the occurrence of unstable oscillation and increase of equivalent series resistance.

Load capacitance
Effective series capacitance measured from the terminals of a crystal unit to the oscillation circuit and determined as a condition when using a crystal unit in an oscillation circuit.
The operating frequency is determined by the electrical characteristics of a crystal unit and the load capacitance.

Caution

The evaluation results above should be used as a reference during the crystal selection. Depending on the actual board layout, frequency used, and other related factors the circuit characteristics may differ, therefore selection of the crystal should be done based on evaluation results of the actual circuit board.
Please contact us for recommendations of crystal specifications which will work best for your applications.

For additional enquiries, please send email : Write a mail

For disclaimer information, please refer here.
*http://www.ndk.com/en/1172916_914.html

Page Top

HOME Products About Us Investor Relations Contact Us Site Map
Trademarks Privacy Statement Site Guidance