



RFIC System Technologies Private Limited

PROJECT	CMOS MIXER FOR ZIGBEE RECEIVER
customer	
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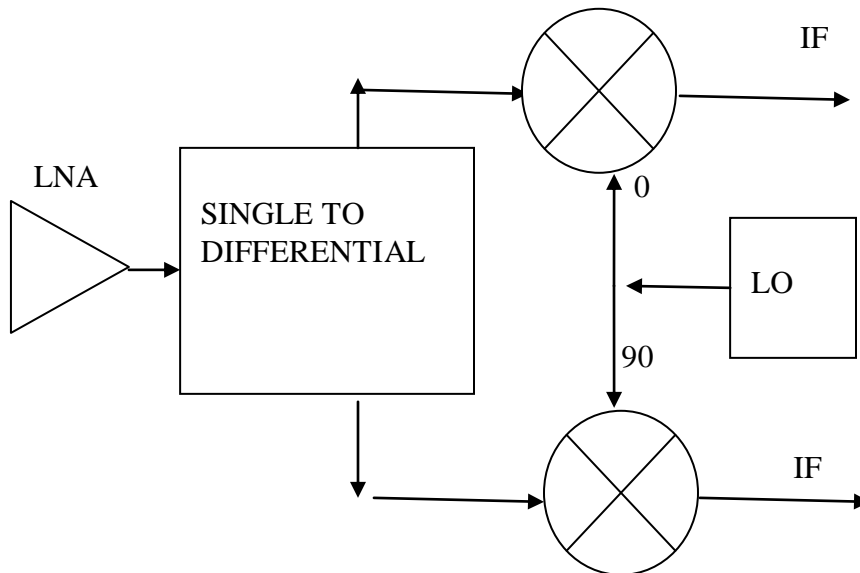
RFIC System Technologies

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Description:

Block diagram



Specifications:

NOMINAL OPERATING CONDITIONS

parameters	units	min	typ	max	conditions
DC VDD voltage	V		1.8		
control voltage "High"	V		1.8	VDD	
control voltage "Low"	V		0	0.3	
operating ambient temperature	°C	-30		85	All operating modes

MIXER TECHNICAL PARAMETERS (VDD=1.8V, T=25degC)

parameters	units	min	typ	max	conditions
LO FREQUENCY	GHz	2.4		2.5	
IF	MHz	1		2	
Noise Fugure	dB		5		
Conversion gain	dB		-1		
Input referred 1dB	dBm		-5		
ISOLATION LO-RF	dB		60		
ISOLATION LO-IF	dB		60		
ISOLATION IF-RF	dB		60		
Input/Output Impedance	Ohm		50		

RECEIVE TECHNICAL PARAMETERS (VDD=1.8V, T=25degC)

parameters	units	min	typ	max	conditions
Operating frequency band	GHz	2.4		2.5	