

	[10] 2017	[11] 2019	[12] 2017	[13] 2019	[14] 2016	[15] 2016	this work
Technology	SiGe 130nm BiCMOS	SiGe 130nm BiCMOS	SiGe 130nm BiCMOS	FDSOI 22nm CMOS	SiGe 130nm BiCMOS	65nm CMOS	SiGe 130nm BiCMOS
ft/fmax [GHz]	300/500	300/500	300/500	240/230	250/300	-	250/370
NF [dB]	18(SSB)	12(DSB)	10.7(DSB)	8.5*(DSB)	15*(SSB)	33(-)	9-11(DSB)
DC power [mW]	500	100	122	198	115	6	65
Conversion gain [dB]	25.3	14	47	12	21	-11	32
f[GHz] /3 dB BW [GHz]	240/55	190/80	190/35	135/22	140-170/30	120/14	110-170/35
RF- bandwidth [%]	23	44	18.4	16.3	19.3	11.7	25
Chip area [mm^2]	-	-	-	-	0.7	-	0.2
Integration	multiplier mixer IF-buffer	LNA LO-driver mixer IF-buffer	LNA LO-driver mixer IF-buffer	LNA LO-driver IQ-mixer IF-buffer	LO-driver mixer IF-buffer	mixer	mixer IF buffer