

# Multifunctional RFIC

Part	Frequency (GHZ)	Gain (dB)	NF (dB)	Input return loss (dB)	Output return loss (dB)	P-1dB output (dBm)	Bias voltage	Bias current	Package
SAC3601	2.7~3.1	N/A	N/A	-20	-20	N/A	+5	3	Bare Die
SAC3602	1.98~2.3	16.5	N/A	-15	-16	18	-5	10	Bare Die
SAC3603	5.0~6.0	10.5	4.7	-13	-20	14	+5	N/A	Bare Die
SAC3604	0.7~2.0	6	N/A	N/A	N/A	Down : 4dBm Up : 12dBm	+5	(80+50)	Bare Die
SAC3605	2.5~5	16	N/A	N/A	N/A	Down : 14dBm Up : 3dBm	+5	N/A	Bare Die
SAC3606	8~12	-8.5	N/A	-17	-7	Input P-1dB:18	+5	70	Bare Die
SAC3606Q4	8~12	-9	N/A	-15	-8	Input P-1dB: 18	+5	70	QFN4x4
SAC3607	8~12	5	N/A	-17	-22	18	+5	110	Bare Die
SAC3607Q5	8~12	4.5	N/A	-17	-12	18	+5	110	QFN5x5
SAC3608	2~4	25.5	N/A	-20	-13	16	+5	80	Bare Die
SAC3609	0.7~5.0	21	4.5	-14	-14	16	+5	120	Bare Die
SAC3613	8~12	1.5	N/A	-13	-12	N/A	+5	90	Bare Die
SAC3607	8~12	5	N/A	-17	-22	18	+5	110	Bare Die

# Front End RFIC

Part Number	RF Frequency	Description	Rx Gain	Rx NF	Rx Current	Tx Gain	Saturated Output Power	Tx Current	Supply Voltage	Package
	(MHz)		(dB)	(dB)	(mA)	(dB)	(dBm)	(mA)	(V)	
BFM4120	2400-2500	ZigBee/Thread/Bluetooth FEM	11.5	2.6	8	24	21	75/90	2.7-3.6	16L 3 x 3 x 0.55mm QFN
8TR1211	2400-2500	Bluetooth FEM_PA, By Pass	-	-	-	14	17/15	15/23	2.7-3.6	16L 2 x 2 x 0.45mm QFN
8TR1215	2400-2500	Bluetooth FEM_PA, By Pass	-	-	-	15	11	9/17	1.5-2.3	8L 2 x 2 x 0.45mm QFN
8TR1216	2400-2500	Bluetooth FEM_PA, By Pass	-	-	-	13	10	8/18	2.0-3.6	8L 2 x 2 x 0.45mm QFN
8TR2211	2400-2500	ZigBee/Bluetooth FEM, LNA, By Pass	13/11	2/2.5	7/4	-	-	-	2.7-3.6	16L 2 x 2 x 0.45mm QFN
8TR8201	2400-2500	ZigBee/Thread/Bluetooth FEM	11.5	2.6	8	24	21	75/90	2.7-3.6	16L 3 x 3 x 0.55mm QFN
8TR8202	2400-2500	High Power ISM FEM	10.5	3.0	8.5	28/32	15/23	60/108/136	2.7-3.6	16L 3 x 3 x 0.55mm QFN
8TR8210	2400-2500	Bluetooth, Low Power FEM	12/11	2.5/3	8/5.5	23	20/21	75/85	2.7-3.6	16L 3 x 3 x 0.55mm QFN
8TR8211	2400-2500	Bluetooth FEM	13.0	2.3	8	12	12/13/14	15/23	2.7-3.6	16L 2 x 2 x 0.45mm QFN
8TR1111	850-930	Sub-GHz ISM Band FEM	-	-	-	34	24/23	260/100	2.7-3.6	16L 3 x 3 x 0.45mm QFN

8TR1218	2400-2500	Bluetooth FEM_PA, By Pass, Tx-Rx SW	-	-	-	9	12	8/24	2.0-3.6	8L 2 x 2 x 0.45mm DFN
8TR1241	2400-2500	Bluetooth FEM_4-port Antenna	-	-	-	11	12/13/14	17/22	2.7-3.6	20L 3 x 3 x 0.55mm QFN
8TR7201	2400-2500	Bluetooth, PA IC	-	-	-	22/23	21	80/18	1.8-3.6	8L 2 x 2 x 0.45mm QFN
8TR8211C	2400-2500	ZigBee/Bluetooth FEM LNA By Pass	13.0	2.4	4.5	12	12/13/14	15/23	2.7-3.6	16L 2 x 2 x 0.45mm QFN
8TR8213	2400-2500	Bluetooth FEM_PA/LNA	13.0	2.5	8	16	16	12/32	2.7-3.3	16L 2 x 2 x 0.45mm QFN
8TR8220	2400-2500	High Power ISM FEM	11/8	2.7/3	9/5	30	23	95/150	2.7-3.6	16L 3 x 3 x 0.55mm QFN
8TR8241	2400-2500	Bluetooth FEM_4-port Antenna	13/11	3.8/4.1	9.5/6	11	12/13/14	17/22	2.7-3.6	20L 3 x 3 x 0.55mm QFN