



RF Modules and Kits

Transceiver Modules

ZMN2405HP

Features:

- Zigbee 2006 Modules Utilize 2.4GHz Direct Sequence Spread Spectrum (DSSS)
- Ad Hoc mesh network • Low Power (see chart) • SPI and UART Interface • FCC and CE Certified for Unlicensed Operation
- Coordinator (-C), Router (-R) and End Device (-E) versions available

WIT2450

Features:

- 2.4GHz Frequency Hopping Spread Spectrum (FHSS) • Auto Ranging • Low Power (see chart) • FCC and ETSI Certified for unlicensed operation • RS-232 async interface

WIT910

Features:

- 900MHz FHSS • 20+ mile range (Line of Sight) with Omni-Directional Antenna • FCC Certified for unlicensed operation • RS-232 async interface

Power Output (mW)	Receive Sensitivity (dBm)	Operating Temperature (C°)	Operating Voltage (Vdc)	Data Rate (Max. Kbps)	Power Consumption Sleep/Rec./Time	Digi-Key Part No.	Price Each	RFM Part No.
+18dBm	-95	-40 - 85	2.7 - 3.6	250	3µ/33mA/150mA	583-1016-ND 583-1018-ND 583-1017-ND	36.06 36.06 36.06	ZMN2405HP-C ZMN2405HP-E ZMN2405HP-R
0dBm	-92	-40 - 85	3.3 - 5.5	250	3µ/33mA/130mA	583-1023-ND 583-1025-ND 583-1024-ND	21.41 21.41 21.41	ZMN2430-C ZMN2430-E ZMN2430-R
18dBm	-95	-40 - 85	3.3 - 5.5	250	3µ/33mA/130mA	583-1026-ND 583-1028-ND 583-1027-ND	36.06 36.06 36.06	ZMN2430HP-C ZMN2430HP-E ZMN2430HP-R
10, 63, 250† 10, 100, 500†	-92 -103	-40 - 70 -40 - 85	3.3 - 10 3.3 - 10	460.8 172.8	750µA/40mA/150mA 250µA/100mA/100mA	583-1006-ND 583-1008-ND	147.20 278.99	WIT2450 WIT910

† Software Selectable

Development Kits and Boards

Description	Digi-Key Part No.	Price Each	RFM Part No.
ZMN2405HP Daughter Board.....	583-1019-ND	195.50	ZMN2405HPDB
Zigbee Developer's Kit with ZMN2405HP (2), Antennas, Cables, and Software.....	583-1020-ND	331.20	ZMN2405HPDK
Zigbee Developer's Kit with ZMN2405HP (4), Serial Gateway, Antennas, Cables and Software.....	583-1021-ND	555.20	ZMN2405HPDK PRO
Zigbee Basic Developer's Kit with Serial Modem and Developer's Board, Antennas, Cables and Software.....	583-1022-ND	220.80	ZMN2405HPDK-B
Developer's Kit for WIT2450 Module with Modems (2), Antennas, Cables and Configuration Software.....	583-1007-ND	498.99	WIT2450DK
Developer's Kit for WIT910 Module with Modems (2), Antennas, Cables and Configuration Software.....	583-1009-ND	799.00	WIT910DK



RF Products

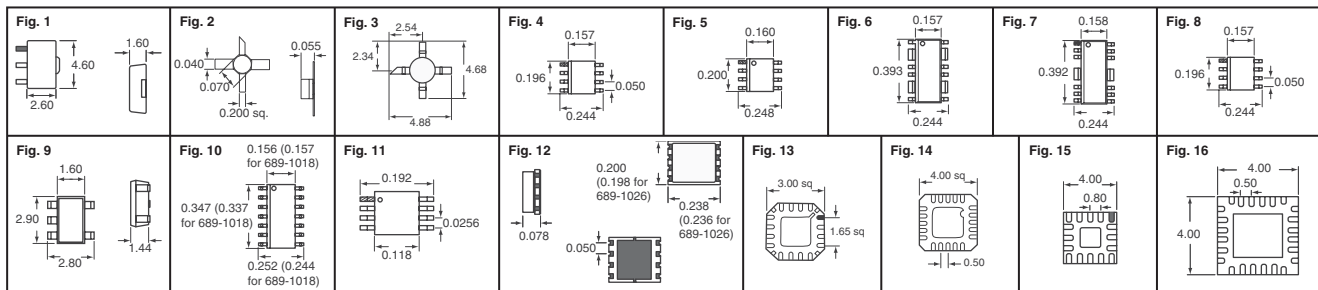


Fig.	Frequency (MHz)	Gain (dB)	Noise Figure (dB)	P1dB (dBm)	OIP3 (dBm)	Vcc/Icc (V/mA)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		RFMD Part No.
									1	25	100		Qty.	Pricing	
GaAs HBT Gain Block Amplifiers															
1	DC - 6000	20.0	3.5	18.0	32.0	6.0/65	SOT-89	689-1020-1-ND	3.40	2.60	2.27	689-1020-2-ND	750	865.69	RF3374TR7
	DC - 6000	13.2	4.6	16.0	28.0	6.6/65	SOT-89	689-1021-1-ND	3.40	2.60	2.27	689-1021-2-ND	750	865.69	RF3375TR7
	DC - 6000	22.0	2.0	11.0	24.4	4.2/35	SOT-89	689-1022-1-ND	3.40	2.60	2.27	689-1022-2-ND	750	865.69	RF3376TR7
	DC - 6000	15.5	3.0	13.0	25.5	4.5/40	SOT-89	689-1023-1-ND	3.40	2.60	2.27	689-1023-2-ND	750	865.69	RF3377TR7
	DC - 6000	12.0	3.7	13.0	26.0	4.8/40	SOT-89	689-1024-1-ND	3.40	2.60	2.27	689-1024-2-ND	750	865.69	RF3378TR7
InGaP HBT Gain Block Amplifiers															
2	DC - 12000	13.0	5.1	13.0	27.1	3.9/50	4-Micro-X	689-1000-1-ND	6.79	6.39	6.29	689-1000-2-ND	1,000	3888.00	NBB-300-T1
	DC - 12000	12.5	4.9	13.8	24.0	5.0/50	SOT-89	689-1001-1-ND	6.79	6.42	6.29	689-1001-2-ND	1,000	3888.00	NBB-310-T1
	DC - 8000	16.5	4.3	13.0	28.1	3.9/47	4-Micro-X	689-1002-1-ND	6.79	6.39	6.29	689-1002-2-ND	1,000	3888.00	NBB-400T1
3	DC - 10000	10.7	4.9	11.1	27.0	3.8/50	4-Micro-X	689-1003-1-ND	3.17	2.55	1.98	689-1003-2-ND	1,000	984.00	NLB-300T1
	DC - 10000	10.7	5.0	12.6	27.9	4.6/50	4-Micro-X	689-1004-1-ND	3.17	2.55	1.98	689-1004-2-ND	1,000	984.00	NLB-310-T1
	DC - 6000	13.0	4.1	12.0	27.3	3.9/47	4-Micro-X	689-1005-1-ND	3.17	2.55	1.98	689-1005-2-ND	1,000	984.00	NLB-400-T1
High Linearity Amplifiers															
4	1800 - 2500	12.0	—	31.0	40.0	3.0 - 6.5/350	8-SOIC	689-1006-1-ND	13.69	11.73	9.78	689-1006-2-ND	750	4032.19	RF2126TR7
5	DC - 2500	15.0	3.8	20.0	33.0	5.5/100	8-SOIC	689-1007-1-ND	5.46	4.34	3.78	689-1007-2-ND	750	1470.00	RF2312TR7
6	DC - 3000	14.3	4.9	22.0	37.0	8.5/180	CJ2BAT0	689-1009-1-ND	9.17	7.86	6.55	689-1009-2-ND	750	2701.88	RF2317TR7
7	5 - 1500	20.0	1.5	23.7	36.4	7.0/120	16-SOP	689-1010-1-ND	12.92	11.07	9.23	689-1010-2-ND	750	3805.31	RF2360TR7
8	300 - 3000	12.5	2.5	23.0	40.0	5.0/150	SOT-89	689-1019-1-ND	8.15	6.48	5.65	689-1019-2-ND	750	2194.50	RF3315TR7
	450 - 2500	14.0	—	28.5	42.0	5 - 8/120	8-SOIC	689-1027-1-ND	10.92	9.36	7.80	689-1027-2-ND	750	3217.50	RF3807TR7
4	450 - 2500	10.5	—	32.5	46.5	5 - 8/270	8-SOIC	689-1028-1-ND	16.42	14.07	11.73	689-1028-2-ND	750	4836.56	RF3809TR7
	800 - 2500	14.0	—	29.0	43.0	5.0/240	8-SOIC	689-1063-1-ND	13.69	11.73	9.78	689-1063-2-ND	750	4032.19	RF5187TR7
Low Noise Amplifiers															
9	150 - 2500	14.0	1.4	-6	4.0	3/5	SOT23-5	689-1008-1-ND	4.80	3.82	3.33	689-1008-2-ND	2,500	1574.40/M	RF2314TR7
	400 - 3000	15.0	1.3	-3.5	9.3	3.3/10	SOT23-5	689-1011-1-ND	2.94	2.24	1.96	689-1011-2-ND	2,500	910.00/M	RF2373TR7
	—	900 - 4000	14.0	1.3	-5	7.0	3/10	8-QFN	689-1012-1-ND	3.61	2.76	2.41	689-1012-2-ND	2,500	1118.00/M
10	400 - 1100	14.0	1.8	—	4.0	5/14	14-SOIC	689-1013-1-ND	7.25	5.77	5.03	689-1013-2-ND	750	1195.00	RF2418TR7
Low Power Amplifiers															
11	12 - 385	48.0	5.0	—	0	2.7/13	8-MSOP	689-1017-1-ND	7.06	5.62	4.89	689-1017-2-ND	750	1900.50	RF2637TR7
Transmit / Receive Switch															
9	DC - 2500	—	—	27.0	39.0	3/0.5 (tx mode)	SOT23-5	689-1014-1-ND	2.35	1.80	1.57	689-1014-2-ND	2,500	728.00/M	RF2436TR7

Fig.	Frequency (MHz)	Gain (dB)	OIP3 @ 31dBm (dBm)	P1dB (dBm)	PAE @ P1dB (%)	Vcc/Icc (V/mA)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		RFMD Part No.
									1	25	100		Qty.	Pricing	
Driver Amplifiers															
12	450 - 470	14.7	51	38	45	5 - 8/400	AIN	689-1025-1-ND	24.45	21.40	17.58	689-1025-2-ND	750	7620.90	RF3800TR7
13	1500 - 2200	18	50	36	40	5 - 8/630	AIN	689-1026-1-ND	26.21	22.94	18.84	689-1026-2-ND	750	8169.53	RF3806TR7
	800 - 950	32	—	34†	57	3.5/200	16-QFN	689-1030-1-ND	9.38	8.04	6.70	689-1030-2-ND	2,500	3417.00/M	RF5110GTR7

† 800-915MHz

Fig.	Frequency (MHz)	Broadband Noise Floor (dBm/Hz)	Carrier Suppression (dBc)	Sideband Suppression (dBc)	OIP3 (dBm)	Vcc/Icc (V/mA)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		RFMD Part No.
									1	25	100		Qty.	Pricing	
Quadrature Modulators / Demodulators															
14	700 - 2200	-156	40	43	20	2.7 - 3.3/85	20-QFN	689-1015-1-ND	17.08	14.64	12.20	689-1015-2-ND	5032.50		RF2483TR7
15	800 - 2500	-152.5	35	35	19	5/50	16-QFN	689-1016-1-ND	21.92	19.18	15.76	689-1016-2-ND	6832.88		RF2484TR7
10	0.1 - 250	—	25	30	—	3 - 6/10	14-SOIC	689-1018-1-ND	8.96	7.68	6.40	689-1018-2-ND	2640.00		RF2713TR7
16	800 - 2200	-152	40	40	—	2.7 - 3.3/112	24-QFN	689-1029-1-ND	10.89	9.41	7.73	689-1029-2-ND	4455.00		RF3854TR7

(Continued)

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