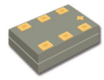
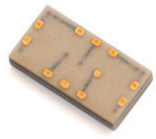
Xinger® Subminiature Components Selection Matrix

- Sized for both compact wireless infrastructure applications (e.g. A-to-D converters, receivers, transceivers, and amplifiers for pico or home base stations) *and* wireless consumer electronics applications (e.g. handhelds, digital/analog conversion, broadcasting, Bluetooth® devices)
- Product family supports wide array of bands and protocols, such as WiMax, WiFi, GSM, GPS, Bluetooth®, ZigBee®, 802.11a, b, g, 3G, RFID, PCS, DCS, others
- Low cost in volume with excellent performance for their size (power handling, insertion loss, etc.)
- Non-conductive surface; 100% RF-tested; RoHS compliant; shipped on tape & reel


0404 balun


0603 balun


0805 balun


analog-to-digital conversion balun

Balun Transformers

Part no.	Freq. (GHz)	Power (W)	Size inches/ (mm)	Unbal. Port Imp. (Ω)	Bal. Port Imp. (Ω)	Ins. Loss (dB)	Amp. Bal. (dB)	Phase Bal. (degrees)	RL Unbal. (dB)
B0205F50200AHF	0.2 - 0.5	2.0	0.1 x 0.08 (4.1 x 2.1)	50	50	1.6	0.4	3.1	13.9
BD0205F5050AHF	0.2 - 0.5	2.0	0.1 x 0.08 (4.1 x 2.1)	50	50	1.1	0.6	3.0	11.0
B0225J7575AHF	0.2 - 2.5	0.5	0.08 x 0.05 (2 x 1.25)	75	75	1.1	3.2	40.0	14.0
B0310J50100AHF	0.3 - 1.0	2.0	0.08 x 0.05 (2 x 1.25)	50	100	1.0	2.8	36.0	8.1
B0322J5050AHF	0.3 - 2.2	2.0	0.08 x 0.05 (2 x 1.25)	50	50	1.6	1.3	20.0	13.0
B0430J50100AHF	0.4 - 3.0	1.0	0.08 x 0.05 (2 x 1.25)	50	100	4.0	1.4	12.0	8.4
BD0810J50100AHF	0.8 - 1.0	2.0	0.08 x 0.05 (2 x 1.25)	50	100	1.0	0.4	2.0	13.0
BD0810J50150AHF	0.8 - 1.0	2.0	0.08 x 0.05 (2 x 1.25)	50	150	1.1	0.6	6.0	13.3
BD0810J50200AHF	0.8 - 1.0	2.0	0.08 x 0.05 (2 x 1.25)	50	200	1.0	1.1	8.0	14.5
BD0826J50200AHF	0.8 - 2.6	2.0	0.08 x 0.05 (2 x 1.25)	50	200	1.5	1.3	7.0	8.5
B0809J50ATI	0.85 - 0.915	2.0	0.08 x 0.05 (2 x 1.25)	50	50	0.6			15.3
B0922J7575A50HF	0.9 - 2.2	2.0	0.08 x 0.05 (2 x 1.25)	75	75	1.1	1.4	9.0	12.0
B0922J7575AHF	0.9 - 2.2	2.0	0.08 x 0.05 (2 x 1.25)	75	75	1.2	1.4	9.0	7.9
BD0922J75100AHF	0.9 - 2.2	2.0	0.08 x 0.05 (2 x 1.25)	75	100	1.64	0.8	4.67	9.1
B0922N7575AHF	0.95 - 2.15	0.75	0.04 x 0.04 (1 x 1)	75	75	0.76	2.1	20.95	13.2
BD1222J50200A00	1.2 - 2.2	2.0	0.08 x 0.05 (2 x 1.25)	50	200	0.6	0.9	6.0	14.0
BD1631J50100AHF	1.6 - 3.1	2.0	0.08 x 0.05 (2 x 1.25)	50	100	1.0	1.0	5.0	10.0
BD1722J50100AHF	1.7 - 2.2	2.0	0.08 x 0.05 (2 x 1.25)	50	100	1.2	1.2	6.0	12.0
BD1722J50200A00	1.7 - 2.2	2.0	0.08 x 0.05 (2 x 1.25)	50	200	0.7	0.9	8.0	15.0
BD1722N5050AHF	1.7 - 2.2	0.8	0.04 x 0.04 (1 x 1)	50	50	1.1	0.8	7.0	13.0

Data current as of: January, 2012

Continues on back >>>

Anaren®
What'll we think of next?®

Website www.anaren.com
USA/Canada (315) 432-8909
Toll free (800) 411-6596
Europe +44 2392-232392

Balun Transformers (continued)

Part no.	Freq. (GHz)	Power (W)	Size inches/ (mm)	Unbal. Port Imp. (Ω)	Bal. Port Imp. (Ω)	Ins. Loss (dB)	Amp. Bal. (dB)	Phase Bal. (degrees)	RL Unbal. (dB)
BD2040J50100A00	2.0 - 4.0	2.0	0.08 x 0.05 (2 x 1.25)	50	100	1.0	1.1	17.0	10.5
BD2130J5050AHF	2.1 - 3.0	2.0	0.08 x 0.05 (2 x 1.25)	50	50	1.2	1.0	5.0	10.0
BD2326L50200AHF	2.2 - 2.6	2.0	0.06 x 0.03 (1.5 x 0.75)	50	200	1.1	0.8	9	12
BD2327N50100AHF	2.3 - 2.7	1.0	0.04 x 0.04 (1 x 1)	50	100	0.8	1.0	7.0	17.0
BD2425J50100AHF	2.4 - 2.5	2.0	0.08 x 0.05 (2 x 1.25)	50	100	0.8	0.5	5.0	14.0
BD2425J50200AHF	2.4 - 2.5	2.0	0.08 x 0.05 (2 x 1.25)	50	200	0.8	0.5	6.0	9.5
BD2425N100ATI	2.4 - 2.5	1	0.04 x 0.04 (1 x 1)	50	Matched	0.8	—	—	17.3
BD2425N50100AHF	2.4 - 2.5	1.0	0.04 x 0.04 (1 x 1)	50	100	0.7	0.6	3.0	18.0
BD2425N50200AHF	2.4 - 2.5	1.0	0.04 x 0.04 (1 x 1)	50	200	0.7	1.0	6.0	21.0
BD2425N5050AHF	2.4 - 2.5	0.8	0.04 x 0.04 (1 x 1)	50	50	0.9	0.9	7.0	15.0
BD2425N5075AHF	2.4 - 2.5	1.0	0.04 x 0.04 (1 x 1)	50	75	0.9	0.9	3.0	14.0
BD2425N50ATI	2.4 - 2.5	1.0	0.04 x 0.04 (1 x 1)	50	127+j34	0.6	x	x	13.0
BD2425NCSR	2.4 - 2.5	1.0	0.04 x 0.04 (1 x 1)	50	Matched	1.0	0.5	6.0	10.0
BD2425NNRF	2.4 - 2.5	1.0	0.04 x 0.04 (1 x 1)	50	Matched	1.3	x	x	10.2
BD2425P50100AHF	2.4 - 2.5	1.0	0.04 x 0.04 (1 x 1)	50	100	0.9	1.5	9.0	19.0
BD2425P5075AHF	2.4 - 2.5	1.0	0.04 x 0.04 (1 x 1)	50	75	1.2	1.6	7.1	11.0
BD3150N50100AHF	3.1 - 5.0	1.0	0.04 x 0.04 (1 x 1)	50	100	0.7	1.3	7	16
BD2425N50AIR	4.8 - 5.9	1.0	0.04 x 0.04 (1 x 1)	50	50	0.7	1.2	7.0	16.0
BD4859N50100AHF	4.8 - 5.9	1.0	0.04 x 0.04 (1 x 1)	50	100	0.6	1.5	8	15
BD4859N50150AHF	4.8 - 5.9	1.0	0.04 x 0.04 (1 x 1)	50	150	0.6	1.4	10.0	12.0
BD4859N5050AHF	4.8 - 5.9	1.0	0.04 x 0.04 (1 x 1)	50	50	0.7	1.2	7.0	16.0

Data current as of: January, 2012

Continues on next page >>>

Xinger® Subminiature Components Selection Matrix

3dB Hybrid Couplers

Part no.	Freq. (GHz)	Power (W)	Size inches/ (mm)	Ins. Loss (dB)	Amp. Bal. (dB)	Phase Bal. (degrees)	RL Unbal. (dB)	Isolation
C0810J5003AHF	0.8 - 1.0	4.0	0.08 x 0.05 (2x1.25)	0.6	0.9	7.0	21.0	18.0
C1720J5003AHF	1.7 - 2.0	4.0	0.08 x 0.05 (2x1.25)	0.4	1.0	5.0	21.0	24.0
C2023J5003AHF	2.3 - 2.7	4.0	0.08 x 0.05 (2x1.25)	0.4	0.8	6.0	18.0	21.0
C2327J5003AHF	2.3 - 2.7	4.0	0.08 x 0.05 (2x1.25)	0.4	0.9	8.0	15.0	18.0
C3337J5003AHF	3.3 - 3.7	4.0	0.08 x 0.05 (2x1.25)	0.3	1.0	7.0	15.0	18.0

Directional Couplers

Part no.	Freq. (GHz)	Power (W)	Size inches/ (mm)	Ins. Loss (dB)	Mean Coupling (dB)	RL Unbal. (dB)	Directivity (dB)
DC0710J5010AHF	0.7 - 1.0	2.0	0.08 x 0.05 (2x1.25)	0.21	10.9	17.5	20.1
DC0710J5020AHF	0.7 - 1.0	2.0	0.08 x 0.05 (2x1.25)	0.22	19.5	21.4	17.5
DC1722J5010AHF	1.7 - 2.2	2.0	0.08 x 0.05 (2x1.25)	0.16	10.8	19.4	16.6
DC1722J5015AHF	1.7 - 2.2	2.0	0.08 x 0.05 (2x1.25)	0.22	15.2	29.2	22.6
DC1722J5020AHF	1.7 - 2.2	2.0	0.08 x 0.05 (2x1.25)	0.17	19.9	22.5	21.4
DC2337J5010AHF	2.3 - 3.7	2.0	0.08 x 0.05 (2x1.25)	0.21	10.8	22.8	21.1
DC2337J5020AHF	2.3 - 3.7	2.0	0.08 x 0.05 (2x1.25)	0.14	21.3	21.2	14.9
DC4759J5020AHF	4.7 - 5.9	2.0	0.08 x 0.05 (2x1.25)	0.17	19.7	10.3	10.3

RF Crossovers

Part no.	Freq. (GHz)	Power (W)	Size inches/ (mm)	Unbal. Port Imp. (Ω)	Bal. Port Imp. (Ω)	Ins. Loss (dB)	RL Unbal. (dB)
J0060L5050A00	0.0 - 6.0	2.0	0.06 x 0.03 (1.5x0.75)	50	50	0.1	18.0
X0060L5050AHF	0.0 - 6.0	2.0	0.06 x 0.03 (1.5x0.75)	50	50	0.1	19.0
J0060L7575A00	0.0 - 2.5	2.0	0.06 x 0.03 (1.5x0.75)	50	50	0.13	22.0
X0060L7575AHF	0.0 - 2.5	2.0	0.06 x 0.03 (1.5x0.75)	50	50	0.1	21.0

Xinger® Subminiature Components Selection Matrix

Power Dividers

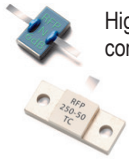
Part no.	Freq. (GHz)	Power (W)	Size inches/ (mm)	Unbal. Port Imp. (Ω)	Bal. Port Imp. (Ω)	Ins. Loss (dB)	Amp. Bal. (dB)	Phase Bal. (degrees)	RL Unbal. (dB)	Isolation
PD0409J7575S2HF	0.4 - 0.9	2.0	0.08 x 0.05 (2 x 1.25)	75	75	0.6	0.6	3.0	10.0	8.2
PD0810J5050S2HF	0.8 - 1.0	2.0	0.08 x 0.05 (2 x 1.25)	50	50	0.6	0.6	4.0	14.0	17.0
PD0922J5050D2HF	0.9 - 2.2	2.0	0.08 x 0.05 (2 x 1.25)	50	50	0.8	0.5	3.0	9.3	10.5
PD0922J5050S2HF	0.9 - 2.2	2.0	0.08 x 0.05 (2 x 1.25)	50	50	0.7	0.3	3.0	10.4	9.0
PD0922J7575D2HF	0.9 - 2.2	2.0	0.08 x 0.05 (2 x 1.25)	75	75	1.0	0.7	3.0	9.5	14.0
PD1722J5050D2HF	1.7 - 2.2	2.0	0.08 x 0.05 (2 x 1.25)	50	50	0.7	0.3	3.0	11.0	17.0
PD1722J5050S2HF	1.7 - 2.2	2.0	0.08 x 0.05 (2 x 1.25)	50	50	0.8	0.3	3.0	10.0	15.0
PD1722J5050S3HF	1.7 - 2.2	2.0	0.08 x 0.05 (2 x 1.25)	50	50	1.2	1.1	12.0	8.9	14.0
PD2328J5050S2HF	2.3 - 2.8	2.0	0.08 x 0.05 (2 x 1.25)	50	50	0.5	0.3	2.0	15.0	17.0
PD2425J5050S2HF	2.4 - 2.5	2.0	0.08 x 0.05 (2 x 1.25)	50	50	0.4	0.2	2.0	18.0	22.0
PD2425N5050S2	2.4 - 2.5	0.5	0.04 x 0.04 (1 x 1)	50	50	0.5	0.4	1.3	21.0	20.0
PD3150J5050S2HF	3.1 - 5.0	2.0	0.08 x 0.05 (2 x 1.25)	50	50	1.3	0.4	2.0	6.8	13.0
PD4859J5050S2HF	4.8 - 5.9	2.0	0.08 x 0.05 (2 x 1.25)	50	50	1.0	0.3	4.0	7.9	14.0

Data current as of: January, 2012

Xinger® subminiature component sample kits are available from some authorized stocking distributors; call 800.411.6596 for details.

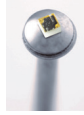
Visit www.anaren.com to learn more about Anaren's *other* components for wireless infrastructure, consumer electronics & other assorted applications!

Anaren Integrated Radio (AIR) modules for low-power RF applications



High-power resistive components for military & instrumentation applications

Low-cost wireless resistive components



Subminiature, high-frequency resistors

Xinger®-III brand couplers, baluns, power dividers & more

Anaren®
What'll we think of next?®

Website	www.anaren.com
USA/Canada	(315) 432-8909
Toll free	(800) 411-6596
Europe	+44 2392-232392