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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





SKYWORKS®

| Product Selection Guide



Connecting Everyone and Everything, All the Time



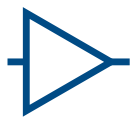
Billions of Connections, One Solution

Skyworks Solutions, Inc. is empowering the wireless revolution, connecting everyone and everything, all the time. Our highly innovative analog and mixed signal semiconductors are connecting people, places, and things spanning a number of new and previously unimagined applications within the automotive, broadband, cellular infrastructure, connected home, industrial, medical, military, smartphone, tablet and wearable markets.

Headquartered in Woburn, Massachusetts, Skyworks is a global company with engineering, marketing, operations, sales, and service facilities located throughout Asia, Europe and North America. For more information, please visit Skyworks' website at: www.skyworksinc.com.

Broad Product Portfolio Supporting Diverse Markets

With our high-performance analog semiconductors, Skyworks is linking people, places, and things across a growing number of markets and applications – bringing everyone closer to vital information wherever it is needed. Our semiconductor solutions support applications in markets like automotive, aerospace and defense, computing, the connected home, consumer electronics, infrastructure, media, medical, mobile devices, networking, smart energy and wearables.



Amplifiers



Attenuators



Circulators /
Isolators



Diodes



Filters



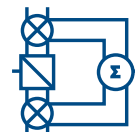
Front-end Modules



Limiter Modules



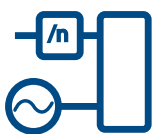
Mixers



Modulators /
Demodulators



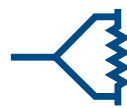
Optocouplers /
Optoisolators



PLLs / Synthesizers
/ VCOs



Power Management



RF Passives



Switches



Technical
Ceramics

[Learn More](#)

We invite you to review Skyworks' comprehensive block diagrams for our key products and markets.

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These products are produced by Trans-Tech™ (a wholly owned subsidiary of Skyworks Solutions, Inc.)	

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Amplifiers

Skyworks Solutions is pleased to offer a broad selection of power amplifiers (PAs) and low noise amplifiers (LNAs) for cellular applications and diverse markets such as wireless infrastructure, WiFi connectivity, automotive, test & measurement, energy management, and other high performance microwave applications. These amplifier solutions leverage the extensive design knowledge, technical leadership, manufacturing expertise, and superior quality of Skyworks.

Select Ultra Low Noise Amplifiers (LNAs)

Select LNAs Available from Stock for Prototype or High Volume Production




Skyworks' family of low noise amplifiers consists of a series of devices which cover a frequency range from 400 to 5900 MHz. Skyworks also offers low cost, discrete pHEMT FET packaged devices for those designers seeking the ultimate in application flexibility and customization. Applications include high performance GPS, WLAN/WiFi, and cellular infrastructure base station receivers for GSM, WCDMA, and LTE modulation schemes, as well as any other high performance LNA application in the 400–5900 MHz frequency range. These devices come packaged in a variety of industry-standard plastic packages which offer excellent thermal performance.

LNAs for Cellular Infrastructure, GPS, Broadband, ISM Band, and WLAN Applications

Part Number	Application	Frequency Range (GHz)	Test Frequency (MHz)	Gain (dB)	NF (dB)	OIP3 (dBm)	OP ₁ dB (dBm)	V _{DD} (V) (Operating Range)	I _{DD} (mA) (Operating Range)	Package (mm)
SKY67151-396LF	Cellular Infrastructure	0.5–3.80	2500	19.0	0.50	35.0	19.0	5 (3.0–5.0)	70 (20–100)	DFN 8L 2 x 2 x 0.75
SKY67101-396LF	Cellular Infrastructure	0.4–1.20	900	17.5	0.50	34.0	19.0	4 (3.3–5.0)	50 (20–90)	DFN 8L 2 x 2 x 0.75
SKY67100-396LF	Cellular Infrastructure	1.2–2.30	1950	17.5	0.70	34.0	18.5	4 (3.3–5.0)	50 (20–90)	DFN 8L 2 x 2 x 0.75
SKY67102-396LF	Cellular Infrastructure	2.0–3.00	2600	17.2	0.80	33.8	15.0	4 (3.3–5.0)	50 (20–90)	DFN 8L 2 x 2 x 0.75
SKY67110-396LF	Cellular Infrastructure	0.3–0.75	450	21.0	0.65	37.0	21.0	5	75 (50–120)	DFN 8L 2 x 2 x 0.75
SKY67111-396LF	Cellular Infrastructure	0.7–1.20	900	20.5	0.50	40.0	20.0	5	75 (50–120)	DFN 8L 2 x 2 x 0.75
SKY67021-396LF	Cellular Infrastructure	0.6–1.20	900	17.5	0.60	40.5	21.0	5 (3.3–5.0)	100 (50–120)	DFN 8L 2 x 2 x 0.75
SKY67022-396LF	Cellular Infrastructure	1.6–2.10	1850	17.5	0.65	39.5	20.0	5 (3.3–5.0)	100 (50–120)	DFN 8L 2 x 2 x 0.75
SKY67023-396LF	Cellular Infrastructure	2.0–3.00	2600	17.5	0.88	39.0	19.7	5 (3.3–5.0)	100 (50–120)	DFN 8L 2 x 2 x 0.75
SKY67161-306LF	Cellular Infrastructure	0.6–1.10	850	38.0	0.30	40.0	25.0	5 (4.0–5.0)	120 (80–140)	QFN 16L 4 x 4 x 0.90
SKY67105-306LF	Cellular Infrastructure	0.6–1.10	850	37.0	0.70	41.0	26.0	5 (3.5–5.0)	140 (120–155)	QFN 16L 4 x 4 x 0.90
SKY67106-306LF	Cellular Infrastructure	1.5–3.00	1950	35.0	0.65	37.0	24.0	5 (3.5–5.0)	100 (80–125)	QFN 16L 4 x 4 x 0.90
SKY67107-306LF	Cellular Infrastructure	2.3–2.80	2600	32.0	0.85	37.5	18.5	5 (3.5–5.0)	125 (50–145)	QFN 16L 4 x 4 x 0.75
SKY67015-396LF	General Purpose	0.05–0.30	250	17.5	0.80	25.0	12.5	3.3 (1.8–5.0)	18 (5–30)	DFN 8L 2 x 2 x 0.75

Select Ultra Low Noise Amplifiers (LNAs)

LNAs for Cellular Infrastructure, GPS, Broadband, ISM Band, and WLAN Applications (Continued)

Part Number	Application	Frequency Range (GHz)	Test Frequency (MHz)	Gain (dB)	NF (dB)	OIP3 (dBm)	OP ₁ dB (dBm)	V _{DD} (V) (Operating Range)	I _{DD} (mA) (Operating Range)	Package (mm)
 SKY67012-396LF	General Purpose	0.3–0.6	450	16.5	0.85	24.0	14.0	3.3 (1.8–5.0)	18 (5–30)	DFN 8L 2 x 2 x 0.75
 SKY67013-396LF	General Purpose	0.6–1.5	900	14.0	0.85	26.0	15.5	3.3 (1.8–5.0)	18 (5–30)	DFN 8L 2 x 2 x 0.75
 SKY67014-396LF	General Purpose	1.5–3.0	2450	13.0	0.85	28.0	15.5	3.3 (1.8–5.0)	18 (5–30)	DFN 8L 2 x 2 x 0.75
SKY65404-31	5.8 GHz WLAN and ISM Band	4.9–5.9	5800	13.0	1.20	20.0	9.0	3.3 (2.8–5.0)	11 (10–15)	DFN 6L 1.5 x 1.5 x 0.45
SKY65405-21	2.4 GHz WLAN and ISM Band	2.4–2.5	2450	15.0	1.10	24.0	15.0	3.3 (2.8–5.0)	12 (10–16)	DFN 6L 1.5 x 1.5 x 0.45

Cellular Power Amplifiers

CDMA PAs

Cell Band

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77735	824–849	PAM for CDMA	TBD	TBD	3.2–4.2	10-pad MCM 3 x 3 x 0.9 Bottom of Form

Other Bands

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77192-14	450–460	PAM for CDMA2000	40	29.0	3.2–4.2	10-pad MCM 4 x 4 x 0.9

Cellular Power Amplifiers

GSM / GPRS / EDGE PAs











Part Number	Frequency (MHz)	Description	Typical Output Power (dBm) GSM/EDGE	Typical PAE (%)	Supply Voltage (V)	Package (mm)
SKY77344		iPAC™ PAM for Quad-band GSM/EDGE			3.0–4.8	20-pad MCM 5 x 5 x 0.9
	824–849	GSM850	35.00	52		
	880–915	GSM900	35.00	52		
	1710–1785	DCS1800	33.50	45		
	1850–1910	PCS1900	33.50	45		
SKY77351-13		PAM for Quad-band GSM/GPRS			3.0–4.8	13-pad MCM 5 x 5 x 1
	824–849	GSM850	35.00	52		
	880–915	GSM900	35.00	52		
	1710–1785	DCS1800	33.50	45		
	1850–1910	PCS1900	33.50	45		
SKY77354		PAM for Quad-band GSM/GPRS/EDGE			3.0–4.8	14-pad MCM 5 x 3.5 x 0.9
	824–849	GSM850	35.35	55		
	880–915	GSM900	35.35	55		
	1710–1785	DCS1800	35.45	53		
	1850–1910	PCS1900	35.45	53		

LTE PAs

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Typical Linear LTE Power (dBm)	Supply Voltage (V)	Package (mm)
SKY77731	1427.9–1462.9	PAM for WCDMA/LTE Band 11 (1427.9–1447.9 MHz) and Band 21 (1447.9–1462.9 MHz)	TBD	TBD	TBD	3.2–4.2	10-pad MCM 3 x 3 x 0.9
SKY77733	777–798	SkyHi™ PAM for LTE Bands 13/14 (777–798 MHz)	43	–	32.0	3.0–4.5	10-pad MCM 3 x 3 x 0.9
SKY77736	832–862	SkyHi™ PAM for LTE Band 20 (832–862 MHz)	42	–	32.0	3.0–4.5	10-pad MCM 3 x 3 x 0.9
SKY77737	698–716	SkyHi™ PAM for LTE Bands 12/17 (698–716 MHz)	44	–	32.0	3.0–4.5	10-pad MCM 3 x 3 x 0.9
SKY77761-11	1920–1980	SkyHi™ PAM for CDMA/WCDMA/HSDPA/HSUPA/HSPA+ Band 1 (1920–1980 MHz)	48	–	28.5	3.0–4.5	10-pad MCM 3 x 3 x 0.9
SKY77761-12	1920–1980	SkyHi™ PAM for CDMA/WCDMA/HSDPA/HSUPA/HSPA+/LTE – Band 1 (1920–1980 MHz)	46	–	28.5	3.4–4.5	10-pad MCM 3 x 3 x 0.9
SKY77762	1850–1910	SkyHi™ PAM for CDMA/WCDMA/HSDPA/HSUPA/HSPA+/LTE – Band 2 (1850–1910 MHz)	46	–	28.6	3.0–4.5	10-pad MCM 3 x 3 x 0.9
SKY77764	1710–1785	SkyHi™ PAM for CDMA/WCDMA/HSDPA/HSUPA/HSPA+/LTE – Bands 3, 4, 9 (1710 MHz–1785 MHz)	46	–	28.0	3.4–4.5	10-pad MCM 3 x 3 x 0.9

Cellular Power Amplifiers






LTE PAs (Continued)

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Typical Linear LTE Power (dBm)	Supply Voltage (V)	Package (mm)
 SKY77767	2500–2570	SkyHi™ PAM for LTE – Band 7 (2500–2570 MHz)	TBD	TBD	TBD	3.0–4.5	10-pad MCM 3 x 3 x 0.9
 SKY77768	880–915	SkyHi™ PAM for WCDMA/HSDPA/HSUPA/HSPA+/LTE	50	–	28.0	3.2–4.2	10-pad MCM 3 x 3 x 0.9
 SKY77771	1427.9–1462.9	PAM for LTE Band 11/21	TBD	TBD	TBD	TBD	10-pad MCM 2 x 2.5 x 0.9
 SKY77772-11	699–748	PAM for LTE – Bands 12, 17, 28	TBD	TBD	TBD	TBD	10-pad MCM 2 x 2.5 x 0.9
 SKY77773	1427.9–1462.9	PAM for LTE Band 11/21	TBD	TBD	TBD	TBD	10-pad MCM 2 x 2.5 x 0.9
 SKY77778-11	2500–2570	PAM for LTE FDD Band 7	TBD	TBD	TBD	TBD	10-pad MCM 2 x 2.5 x 0.9
 SKY77778-21	2500–2570 2496–2690 2300–2400 2545–2575	PAM for LTE FDD Band 7, TDD Bands 38/41, Band 40, and AXGP Band FDD Band 7 TDD Bands 38/41 TDD Band 40 AXGP Band	TBD	TBD	TBD	TBD	10-pad MCM 2 x 2.5 x 0.9
 SKY77778-51	2500–2570 2496–2690 2300–2400 2545–2575	PAM for LTE FDD Band 7, TDD Bands 38/41, Band 40, and AXGP Band FDD Band 7 TDD Bands 38/41 TDD Band 40 AXGP Band	TBD	TBD	TBD	TBD	10-pad MCM 2 x 2.5 x 0.9
 SKY77778-61	2500–2570	PAM for LTE FDD Band 7	TBD	TBD	TBD	TBD	10-pad MCM 2 x 2.5 x 0.9
 SKY77781-11	2500–2570 2305–2315 2496–2690 2300–2400 2545–2575	PAM for LTE FDD Band 7, Band 30, LTE TDD Bands 38/41, Band 40, and AXGP Band LTE B7 LTE B30 LTE B38/41 LTE B40 AXGP Band	TBD	TBD	TBD	TBD	10-pad MCM 2 x 2.5 x 0.85

NEW New products (purple, bold) are continually being introduced at Skyworks. For the latest information, please visit the new products section of our website at www.skyworksinc.com.

Cellular Power Amplifiers

LTE PAs (Continued)

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Typical Linear LTE Power (dBm)	Supply Voltage (V)	Package (mm)
 SKY77807	2500–2570 2570–2620 2300–2400 2496–2690 2300–2400	Quad-band PAM for FDD/TDD LTE (Tx Bands 7, 38, 40, 41) LTE B7 LTE B38 LTE B40 LTE B41 TD-SCDMA B40	TBD	TBD	TBD	TBD	24-pad MCM 4 x 3 x 1 (Max.)
 SKY77814-11	2500–2570 2305–2315 2496–2690 2300–2400 2545–2575	PAM for LTE FDD Band 7, Band 30, LTE TDD Bands 38/41, Band 40, and AXGP Band LTE B7 LTE B30 LTE B38/41 LTE B40 AXGP Band	TBD	TBD	TBD	TBD	24-pad MCM 4 x 3 x 0.8
 SKY77822-21	2500–2570 2305–2315 2496–2690 2300–2400 2545–2575	PAM for FDD LTE Bands 7 and 30, TDD LTE Bands 38/41 and 40, and AXGP Band LTE B7 LTE B30 LTE B38/41 LTE B40 AXGP Band	TBD	TBD	TBD	TBD	28-pad MCM 4 x 3.65 x 0.8 (Max.)
 SKY77824-11	2500–2570 2305–2315 2496–2690 2300–2400 2545–2575	SkyLiTE™ PAM for LTE FDD Band 7, Band 30, LTE TDD Bands 38/41, Band 40, and AXGP Band LTE B7 LTE B30 LTE B38/41 LTE B40 AXGP Band	TBD	TBD	TBD	TBD	28-pad MCM 4 x 3.65 x 0.8 (Max.)
 SKY77830	TBD	Dual-band Power Amplifier Module for TDD LTE (Tx Bands 42, 43)	TBD	TBD	TBD	TBD	16-pad MCM 2.5 x 2.9 x 0.8

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Cellular Power Amplifiers

Multimode Multiband (MMMB) PAs

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical I _{MAX} (mA)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
SKY77615		Multimode Multiband PAM	TBD	TBD	TBD	TBD	36-pad MCM 6 x 8 x 0.9
	824–849	GSM850					
	880–915	GSM900					
	1710–1785	DCS1800					
	1850–1910	PCS1900					
	1920–1980	WCDMA B1					
	1850–1910	WCDMA B2					
	1710–1785	WCDMA B3					
	1710–1755	WCDMA B4					
	824–849	WCDMA B5					
	830–840	WCDMA B6					
	880–915	WCDMA B8					
	1710–1770	WCDMA B10					
SKY77619		SkyHi™ Multimode Multiband PAM				0.5–4.2	42-pin MCM 7 x 9 x 0.9
	824–849	GSM850	53	TBD	29		
	880–915	GSM900	53	TBD	29		
	1710–1785	DCS1800	53	TBD	TBD		
	1850–1910	PCS1900	53	TBD	TBD		
	1920–1980	WCDMA B1	44	TBD	TBD		
	1850–1910	WCDMA B2	44	TBD	TBD		
	1750–1780	WCDMA B4	44	TBD	TBD		
	824–849	WCDMA B5	44	TBD	TBD		
	880–915	WCDMA B8	44	TBD	TBD		
SKY77621-11		Multimode Multiband PAM	TBD	TBD	TBD	TBD	42-pin MCM 5 x 7 x 0.9
	824–849	GSM/EDGE850					
	880–915	GSM/EDGE900					
	1710–1785	GSM/EDGE1800					
	1850–1910	GSM/EDGE1900					
	1920–1980	WCDMA/LTE B1					
	1850–1910	WCDMA/LTE B2					
	1710–1785	WCDMA/LTE B3					
	1710–1755	WCDMA/LTE B4					
	824–849	WCDMA/LTE B5					
	880–915	WCDMA/LTE B8					
	777–787	LTE Band 13					
	704–716	LTE Band 17					
	832–862	LTE Band 20					
	2010–2025	TD-SCDMA Band 34					
1880–1920	LTE Band 39						

Cellular Power Amplifiers

Multimode Multiband (MMMB) PAs (Continued)

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical I _{MAX} (mA)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77621-31		Multimode Multiband PAM	TBD	TBD	TBD	TBD	42-pad MCM 5 x 7 x 0.9
	824–849	GSM/EDGE850					
	880–915	GSM/EDGE900					
	1710–1785	GSM/EDGE1800					
	1850–1910	GSM/EDGE1900					
	1920–1980	WCDMA/LTE B1					
	1850–1910	WCDMA/LTE B2					
	1710–1785	WCDMA/LTE B3					
	1710–1755	WCDMA/LTE B4					
	824–849	WCDMA/LTE B5					
	880–915	WCDMA/LTE B8					
	699–716	LTE B12					
	777–787	LTE B13					
	704–716	LTE B17					
	832–862	LTE B20					
	703–748	LTE B28					
	1880–1920	LTE B39					
	2010–2025	TD-SCDMA Band 34					
 SKY77621-51		Multimode Multiband PAM	TBD	TBD	TBD	TBD	42-pad MCM 5 x 7 x 0.9
	824–849	GSM850					
	880–915	GSM900					
	1710–1785	DCS1800					
	1850–1910	PCS1900					
	1920–1980	WCDMA/LTE B1					
	1850–1910	WCDMA/LTE B2					
	1710–1785	WCDMA/LTE B3					
	1710–1755	WCDMA/LTE B4					
	824–849	WCDMA/LTE B5					
	880–915	WCDMA/LTE B8					
	832–862	WCDMA/LTE B20					
	 SKY77627-11		Multimode Multiband PAM	TBD	TBD	TBD	TBD
824–849		GSM/EDGE850					
880–915		GSM/EDGE900					
1710–1785		GSM/EDGE1800					
1850–1910		GSM/EDGE1900					
1920–1980		WCDMA/LTE B1					
1850–1910		WCDMA/LTE B2					
1710–1785		WCDMA/LTE B3					
1710–1755		WCDMA/LTE B4					
824–849		WCDMA/LTE B5					
880–915		WCDMA/LTE B8					
699–716		LTE B12					
777–787		LTE B13					
704–716		LTE B17					
832–862		LTE B20					
703–748	LTE B28						
1880–1920	LTE/TD-SCDMA B39						
2010–2025	TD-SCDMA B34						

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Cellular Power Amplifiers







Multimode Multiband (MMMB) PAs (Continued)

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical I _{MAX} (mA)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
SKY77629		Multimode Multiband PAM	TBD	TBD	TBD	TBD	42-pad MCM 5 x 7 x 0.9
	824–849	GSM850					
	880–915	GSM900					
	1710–1785	DCS1800					
	1850–1910	PCS1900					
	1920–1980	WCDMA/LTE B1					
	1850–1910	WCDMA/LTE B2					
	1710–1785	WCDMA/LTE B3					
	1710–1755	WCDMA/LTE B4					
	824–849	WCDMA/LTE B5					
880–915	WCDMA/LTE B8						
SKY77629-21		Multimode Multiband PAM	TBD	TBD	TBD	TBD	42-pad MCM 5 x 7 x 0.9
	824–849	GSM850					
	880–915	GSM900					
	1710–1785	DCS1800					
	1850–1910	PCS1900					
	1920–1980	WCDMA/LTE B1					
	1850–1910	WCDMA/LTE B2					
	1710–1785	WCDMA/LTE B3					
	1710–1755	WCDMA/LTE B4					
	824–849	WCDMA/LTE B5					
880–915	WCDMA/LTE B8						
SKY77629-51		Multimode Multiband PAM	TBD	TBD	TBD	TBD	42-pad MCM 5 x 7 x 0.9
	824–849	GSM850					
	880–915	GSM900					
	1710–1785	DCS1800					
	1850–1910	PCS1900					
	1920–1980	WCDMA/LTE B1					
	1850–1910	WCDMA/LTE B2					
	1710–1785	WCDMA/LTE B3					
	1710–1755	WCDMA/LTE B4					
	824–849	WCDMA/LTE B5					
880–915	WCDMA/LTE B8						
832–862	WCDMA/LTE B20						
SKY77630		Multimode Multiband PAM	TBD	TBD	TBD	TBD	42-pad MCM 5 x 7 x 0.9
	824–849	GSM850					
	880–915	GSM900					
	1710–1785	DCS1800					
	1850–1910	PCS1900					
	1920–1980	WCDMA/LTE B1					
	1850–1910	WCDMA/LTE B2					
	1710–1785	WCDMA/LTE B3					
	824–849	WCDMA/LTE B5					
	880–915	WCDMA/LTE B8					
832–862	WCDMA/LTE B20						

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Cellular Power Amplifiers






Multimode Multiband (MMMB) PAs (Continued)

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical I _{MAX} (mA)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77631	824–849 880–915 1710–1785 1850–1910 1920–1980 1850–1910 1710–1785 1710–1755 824–849 699–716	Multimode Multiband PAM GSM850 GSM900 DCS1800 PCS1900 WCDMA/LTE B1 WCDMA/LTE B2 WCDMA/LTE B3 WCDMA/LTE B4 WCDMA/LTE B5 WCDMA/LTE B12	TBD	TBD	TBD	TBD	42-pad MCM 5 x 7 x 0.9
 SKY77632	824–849 880–915 1710–1785 1850–1910 1920–1980 1850–1910 1710–1785 1710–1755 824–849 880–915	Multiband PAM GSM850 GSM900 DCS1800 PCS1900 WCDMA/LTE B1 WCDMA/LTE B2 WCDMA/LTE B3 WCDMA/LTE B4 WCDMA/LTE B5 WCDMA/LTE B8	TBD	TBD	TBD	TBD	42-pad MCM 5 x 7 x 0.9
 SKY77633		Multimode Multiband PAM for Quad-band GSM/EDGE – Hepta-Band (1, 2, 3, 4, 5, 8, 20) WCDMA/HSDPA/HSUPA/HSPA+/LTE	TBD	TBD	TBD	TBD	42-pad MCM 7 x 5 x 0.9
 SKY77641		Multimode Multiband PAM WCDMA Bands 1, 2, 3, 4, 5, 8, 9 TD-SCDMA Bands 34, 39 FDD LTE Bands 1, 2, 3, 4, 5, 7, 8, 9, 12, 13, 17, 20, 28, 30 TDD LTE Bands 38, 39, 40, 41	TBD	TBD	TBD	TBD	42-pad MCM 4 x 6.8 x 0.8
 SKY77643-11		SkyLiTE™ Multimode Multiband PAM WCDMA Bands 1, 2, 3, 4, 5, 8, 9 TD-SCDMA Bands 34, 39 FDD LTE Bands 1, 2, 3, 4, 5, 7, 8, 9, 12, 13, 17, 20, 28, 30 TDD LTE Bands 38, 39, 40, 41	TBD	TBD	TBD	TBD	42-pad MCM 4 x 6.8 x 0.8
 SKY77643-21		Multimode Multiband PA WCDMA Bands 1, 2, 3, 4, 5, 8, 9 TD-SCDMA Bands 34, 39 FDD LTE Bands 1, 2, 3, 4, 5, 7, 8, 9, 12, 13, 17, 20, 28, 30 TDD LTE Bands 38, 39, 40, 41	TBD	TBD	TBD	TBD	42-pad MCM 4 x 6.8 x 0.8 Max.

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Multimode Multiband (MMMB) PAs (Continued)


Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical I_{MAX} (mA)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77646		Multimode Multiband PAM for Quad-band GSM/EDGE –WCDMA/HSDPA/HSUPA/HSPA+/LTE (Bands 1, 25, 3, 4, 26, 8, 13, 12, 20, 28, 34, 39)	TBD	TBD	TBD	TBD	42-pad MCM 7 x 5 x 0.9
 SKY77647		Multimode Multiband PAM for Quad-band GSM/EDGE –WCDMA/HSDPA/HSUPA/HSPA+/LTE (Bands 1, 2, 3, 4, 5, 8, 12, 13, 17, 20, 26, 28, 34, 39)	TBD	TBD	TBD	TBD	42-pad MCM 7 x 5 x 0.8
 SKY77648		Multimode Multiband PAM for Quad-band GSM/EDGE –WCDMA/HSDPA/HSUPA/HSPA+/LTE (Bands 1, 2, 3, 4, 5, 8, 12, 13, 17, 20, 26, 28, 34, 39)	TBD	TBD	TBD	TBD	42-pad MCM 7 x 5 x 0.8
 SKY77753	2500–2570 2570–2620 1880–1920 2300–2400 2496–2690 2010–2025 1880–1920 2300–2400	PAM for Penta-band FDD LTE/TD–SCDMA/TDD LTE LTE B7 LTE B38 LTE B39 LTE B40 LTE B41 TD–SCDMA B34 TD–SCDMA B39 TD–SCDMA B40	TBD	TBD	TBD	TBD	26-pad MCM 5 x 3.5 x 0.9
 SKY77754-11	2570–2620 1880–1920 2300–2400 2496–2690 2010–2025 1880–1920	PAM for Penta-band TD–SCDMA/TDD LTE– Bands 34, 38, 39, 40, 41 LTE B38 LTE B39 LTE B40 LTE B41 TD–SCDMA B34 TD–SCDMA B39	TBD	TBD	TBD	TBD	26-pad MCM 5 x 3.5 x 0.9

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Cellular Power Amplifiers

WCDMA PAs


Single Band Modules—Band 1

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77701	1920–1980	PAM for CDMA/WCDMA/HSDPA/HSUPA/HSPA+/LTE	39	27.0	3.2–4.2	10-pad MCM 3 x 3 x 0.9


Single Band Modules—Band 2

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77702	1850–1910	PAM for WCDMA/HSDPA/HSUPA/HSPA+/LTE	40.0	28.5	3.2–4.2	10-pad MCM 3 x 3 x 0.85


Single Band Modules—Band 5 & 6

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77765	815–849	SkyHi™ PAM for CDMA/WCDMA/HSDPA/HSUPA/HSPA+/LTE	50	28	3.2–4.2	10-pad MCM 3 x 3 x 0.9


Single Band Modules—Band 8

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77705	880–915	PAM for WCDMA/HSDPA/HSUPA/HSPA+/LTE	39	27	3.2–4.2	10-pad MCM 3 x 3 x 0.9

Multiband Modules—Band 1 & 8

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
SKY77741	1920–1980 880–915	PAM for CDMA2000/WCDMA/HSDPA/HSUPA	47	27	3.2–4.2	16-pad MCM 4 x 3 x 0.9
 SKY77751-12	1920–1980 880–915	SkyHi™ PAM for CDMA2000/WCDMA/HSDPA/HSUPA, LTE	47	27	3.2–4.2	16-pad MCM 4 x 3 x 0.9

Multiband Modules—Band 2 & 5

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
SKY77742	1850–1910 824–849	PAM for CDMA2000/WCDMA/HSDPA/HSUPA	47	27	3.2–4.2	16-pad MCM 4 x 3 x 0.9
 SKY77752	1850–1910 824–849	SkyHi™ PAM for CDMA2000/WCDMA/HSDPA/HSUPA, LTE	47	27	3.2–4.2	16-pad MCM 4 x 3 x 0.9




Cellular Power Amplifiers

WCDMA PAs (Continued)

Multiband Modules—Band 1 & 5

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77197	824–849 1920–1980	PAM for WCDMA/HSDPA	40	27	3.2–4.2	14-pad MCM 5 x 4 x 0.85

Multiband Modules—Band 1, 2, 5, 8

Part Number	Frequency (MHz)	Description	Package (mm)
 SKY77742-21	1920–1980 1850–1910 1710–1785 824–849 880–915	SkyHi™ Broadband Power Amplifier Module for WCDMA/HSDPA/HSUPA/HSPA+ (Bands 1, 2, 4, 5, 8) CDMA (Bands 1, 2, 5) WCDMA B1 WCDMA B2 WCDMA B4 WCDMA B5 WCDMA B8	16-pad MCM 3.0 x 4.0 x 0.9
 SKY77758	1920–1980 1850–1910 824–849 880–915	Broadband PAM for WCDMA/HSDPA/HSUPA/HSPA+ (Bands 1, 2, 5, 8) WCDMA B1 WCDMA B2 WCDMA B5 WCDMA B8	14-pad MCM 3.0 x 4.2 x 0.9
 SKY77769	1920–1980 1850–1910 1710–1785 824–849 880–915	Broadband PAM for WCDMA/HSDPA/HSUPA/HSPA+ (Bands 1, 2, 4, 5, 8) WCDMA B1 WCDMA B2 WCDMA B4 WCDMA B5 WCDMA B8	14-pad MCM 3.0 x 4.2 x 0.9

WiFi Connectivity

2.5 GHz Power Amplifiers


Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	P ₁ dB (dBm)	PAE (%)	V _{CC} (V)	Typ. Quiescent Current (mA)	Typ. Noise Figure (dB)	Package (mm)
SE2425U	2.4–2.5	2.45	28.2	–	–	–	3.3	–	–	16-pin QFN 3 x 3 x 0.5
SE2527L	2.4–2.5	2.45	33.0 34.0	–	26.5 28.5	–	3.5 5.0	–	–	16-pin QFN 4 x 4 x 0.9
SE2528L	2.4–2.5	2.45	33.0 34.0	–	26.5 28.5	–	3.3 5.0	–	–	16-pin QFN 4 x 4 x 0.9
SE2565T	2.4–2.5	2.45	31.0	–	30.0	–	3.3	–	–	16-pin QFN 3 x 3 x 0.6
SE2568L	2.4–2.5	2.45	27.0 27.0	–	25.0 25.0	–	3.3 5.0	90 100	–	8-pin QFN 2 x 2 x 0.9
SE2574BL-R	2.4–2.5	2.45	27.0	–	25.0	–	3.3	–	–	8-pin QFN 2 x 2 x 0.9

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WiFi Connectivity

2.5 GHz Power Amplifiers (Continued)


Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	P ₁ dB (dBm)	PAE (%)	V _{CC} (V)	Typ. Quiescent Current (mA)	Typ. Noise Figure (dB)	Package (mm)
SE2574L	2.4–2.5	2.45	28.0	–	25.0	–	3.3	–	–	8-pin QFN 2 x 2 x 0.9
SE2576L	2.4–2.5	2.45	33.0	–	32.0	–	5.0	–	–	16-pin QFN 3 x 3 x 0.9
SE2597L	2.4–2.5	2.45	28.0	–	26.5	–	3.3	125	–	16-pin QFN 3 x 3 x 0.9
SE2598L	2.4–2.5	2.45	28.0	–	26.5	–	3.3	125	–	16-pin QFN 3 x 3 x 0.9
SE2604L	2.4–2.5	2.45	32.0	–	30.0	–	3.3	–	–	16-pin QFN 3 x 3 x 0.6
SE2605L	2.4–2.5	2.45	33.0	–	32.0	–	5.0	–	–	16-pin QFN 3 x 3 x 0.9
SE2609L	2.4–2.5	2.45	28.0 28.0	–	25.5 25.5	–	3.3 5.0	100	–	8-pin QFN 2 x 2 x 0.9
SE2623L	2.4–2.5	2.45	33.0	–	32.0	–	5.0	–	–	16-pin QFN 3 x 3 x 0.9
SKY65131	2.4–2.5	2.442	26.0	–	–	28	38.0	3.3	150	16-pin MCM 4 x 4 x 1.5
SKY65174-21	2.4–2.5	2.442	35.0	–	–	–	5.0	285	7	10-pin MCM 4 x 4 x 0.85

Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	OP ₁ dB (dBm)	P ₁ dB (dBm)	V _{CC} (V)	V _{DD} (V)	NF (dB)	Typ. Quiescent Current (mA)	Package (mm)
SKY65162-70LF	0.4–2.7	0.915	20.0	46.5	28.0	–	–	5	–	188	4-pin SOT-89 4.5 x 2.4 x 1.5
	0.4–2.7	1.960	15.0	43.0	30.2	–	–	5	–	188	
	0.4–2.7	2.400	13.2	43.5	29.5	–	–	5	–	188	
	0.4–2.7	2.400	13.2	43.8	30.0	–	–	5	–	188	
SKY65900-11	2.4–2.5	TBD	TBD	–	34.0	–	TBD	–	TBD	275	16-pin QFN 4 x 4 x 0.9
 SKY85004-11	2.4–2.5	2.45	29	–	–	–	3.0–4.6	–	N/A	100	12-bump Flip Chip Die 0.84 x 0.6

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WiFi Connectivity





5 GHz Power Amplifiers

Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	P ₁ dB (dBm)	PAE (%)	V _{CC} (V)	Typ. Quiescent Current (mA)	Typ. Noise Figure (dB)	Package (mm)
SE2537L	4.90–5.90	5.45	28	–	25	–	3.3	150	–	16-pin QFN 3 x 3 x 0.9
SE2567L	4.90–5.90	5.40	30	–	25	–	3.3	150	–	16-pin QFN 3 x 3 x 0.9
SE5003L	5.15–5.85	5.40	32	–	29	–	5.0	150	–	20-pin QFN 4 x 4 x 0.9
 SE5003L1-R	5.15–5.85	5.40	32	–	32	–	5.0	120	–	20-pin QFN 4 x 4 x 0.9
SE5004L	5.15–5.85	5.40	26	–	34	–	5.0	300	–	20-pin QFN 4 x 4 x 0.9
SE5005L	5.15–5.75	5.40	27	–	25	–	3.3	–	–	16-pin QFN 3 x 3 x 0.9
SE5023L	5.15–5.85	5.40	32	–	34	–	5.0	–	–	16-pin QFN 4 x 4 x 0.9
SKY85402-11	5.15–5.9	5.45	32	–	29	–	5.0	300	–	20-pin QFN 4 x 4 x 0.85

Dual-band Power Amplifiers

Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	P ₁ dB (dBm)	PAE (%)	V _{CC} (V)	Typ. Quiescent Current (mA)	Typ. Noise Figure (dB)	Package (mm)
SE2580L	4.9–5.875 (a) 2.4–2.5 (b) 2.4–2.5 (g)	5.15, 5.45 2.45 2.45	30.0 30.0 30.0	–	24.0 27.0 27.0	–	3.3 3.3 3.3	145 TBD 115	–	20-pin QFN 3 x 3 x 0.9




2.5 GHz Low Noise Amplifiers

Part Number	Frequency (GHz)	Typ. Gain (dB)	V _{DD} (V)	Typ. Noise Figure (dB)	Package (mm)
SE2600S	2.4–2.5	12	3.3	1.8	11-pin CSP 1.07 x 1.05 x 0.38
SE2601T	2.4–2.5	12	3.3	1.8	12-pin QFN 2 x 2 x 0.6
 SKY85202-11	2.4–2.5	14	3.6	2.0	15-bump WLCSP 1.04 x 1.04
 SKY85203-11	2.4–2.5	14	3.6	2.0	12-pin QFN 2 x 2 x 0.5
 SKY85204-11	2.4–2.5	13	3.3	2.7	11-bump Flip Chip Die 0.76 x 0.97
 SKY85207-11	2.4–2.5	14	3.6	1.9	8-pin DFN 1.5 x 1.5 x 0.33

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WiFi Connectivity

5 GHz Low Noise Amplifiers

Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	OP ₁ dB (dBm)	V _{DD} (V)	Typ. Supply Current (mA)	Typ. Noise Figure (dB)	Package (mm)
SE5008L	4.9–5.850	–	14	–	–	3.3	–	2.2	16-pin QFN 3 x 3 x 0.9
SKY65404-31	4.9–5.900	5.8	13	20	9	3.3	11	1.2	6-pin DFN 1.5 x 1.5 x 0.45
 SKY85608-11	4.9–5.925	–	12	4	–	3.6	12	2.2	8-pin DFN 1.5 x 1.5 x 0.4
 SKY85611-11	4.9–5.925	–	13	–	–	3.3	–	2.7	11-bump Flip Chip Die 0.76 x 0.97
 SKY85613-11	4.9–5.925	–	13	–	–	3.6	–	2.3	6-pin DFN 1.2 x 1.4 x 0.33

Wireless Infrastructure / Femtocell Power Amplifiers

High Gain Linear PA Modules




Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	P ₁ dB (dBm)	V _{CC} (V)	Typ. Quiescent Current (mA)	Typ. Noise Figure (dB)	Package (mm)
SKY65120-21	2.11–2.17	2.14	24.6	48	33.5	5.0	447	8.4	20-pin MCM 6 x 6 x 0.9
SKY65124	1.93–1.99	1.96	24.0	45	33.0	5.0	550	6.3	20-pin MCM 6 x 6 x 1.45
SKY65126-21	0.80–0.90	0.85	30.0	48	32.5	5.0	285	4.5	20-pin MCM 6 x 6 x 1.45
SKY65127	0.70–0.80	0.75	36.5	44	32.5	5.0	264	4.4	20-pin MCM 6 x 6 x 1.45
SKY65129-11	1.98–2.02	2.00	29.5	–	34.5	5.0	425	6.5	20-pin MCM 6 x 6 x 1.35
SKY65170-21	0.86–0.96	0.88	32.0	45	28.0	5.0	200	6.5	20-pin MCM 6 x 6 x 1.35
SKY65171-21	1.93–2.17	1.96	30.0	36	28.0	5.0	150	6.5	20-pin MCM 6 x 6 x 1.35
 SKY66001-11	2.10–2.20	2.14	30.0	40	–	5.0	57	–	10-pin MCM 3 x 3 x 0.9
 SKY66002-11	1.90–2.025	1.96	30.0	40	–	4.2	60	–	10-pin MCM 3 x 3 x 0.9
 SKY66005-11	0.85–0.92	0.883	30.0	–	–	4.2	46	–	10-pin MCM 3 x 3 x 0.9
 SKY66008-11	0.90–0.99	0.9425	30.0	–	–	4.2	48	–	10-pin MCM 3 x 3 x 0.9
 SKY66013-11	0.70–0.80	0.746	27.5	–	–	4.2	46	–	10-pin MCM 3 x 3 x 0.9

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Smart Energy–Connected Home and Automation 802.15.4, ISM, and ZigBee®




Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	P ₁ dB (dBm)	PAE (%)	V _{CC} (V)	Typ. Quiescent Current (mA)	Typ. Noise Figure (dB)	Package (mm)
SKY65111-348LF	0.60–1.1	0.915	40.0	36	29.5	50	3.5	250	6.5	16-pin QFN 3 x 3 x 0.75
SKY65116	0.39–0.5	0.445	35.0	43	32.5	42	3.6	330	6.0	12-pin MCM 8 x 8 x 1.45
SE2425U	2.4–2.5	2.450	28.2	–	–	–	2.0–3.3	–	–	16-pin QFN 3 x 3 x 0.5
SE2433T	2.4–2.5	2.450	22.0	–	24.0	31	2.0–3.6	30	–	12-pin QFN 2 x 2.5 x 0.55

BDS / GPS / GNSS Low Noise Amplifiers

Part Number	Frequency Range (MHz)	Test Frequency (MHz)	Description	Gain (dB)	V _{DD} (V)	IP ₁ dB (dBm)	NF (dB)	Package (mm)
 SKY65601-477LF	1561–1606	1575	BDS/GPS/GNSS Low Noise Amplifier	16.8	2.85	-13.0	0.80	6-pin DFN 2.0 x 1.3 x 0.45
 SKY65605-21	1550–1601.8	–	BDS/GPS/GNSS Low Noise Amplifier	19.0	1.5–2.85	–	0.60	6-pin QFN 0.7 x 1.1 x 0.55
 SKY65611-11	TBD	TBD	GPS/GLONASS/Galileo/BDS Low Noise Amplifier	16.5	1.5–2.85	–	0.65	6-pin DFN 1.1 x 0.9 x 0.45

Broad Market Low Noise Amplifiers (LNAs) and Low Noise Transistors




















Low Noise Amplifiers

Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	OP ₁ dB (dBm)	V _{DD} (V)	Typ. Supply Current (mA)	Typ. Noise Figure (dB)	Package (mm)
 SKY65047-360LF	0.4–3.0	1.575	16.5	19.5	0	3.3	5	0.80	8-pin DFN 2 x 2 x 0.9
 SKY65048-360LF	0.7–1.2	0.900	16.5	35.0	18.0	5.0	85	0.65	8-pin QFN 2 x 2 x 0.9
 SKY65050-372LF	0.45–6.0	2.400	15.5	23.5	10.5	3.0	20	0.65	4-pin SC-70 2.2 x 1.35 x 1.1
SKY65404-31	4.9–5.9	5.800	13.0	20.0	9.0	3.3	11	1.20	6-pin DFN 1.5 x 1.5 x 0.45
SKY65405-21	2.4–2.5	2.450	15.0	24.0	15.0	3.3	12	1.10	6-pin DFN 1.5 x 1.5 x 0.45
SKY65971-11	2.4–2.5	2.450	14.5	–	–	3.3	13	1.30	6-pin DFN 1.5 x 1.5 x 0.45

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Broad Market Low Noise Amplifiers (LNAs) and Low Noise Transistors




Low Noise Amplifiers (Continued)

Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	OP ₁ dB (dBm)	V _{DD} (V)	Typ. Supply Current (mA)	Typ. Noise Figure (dB)	Package (mm)
SKY65981-11	5.15–5.85	5.800	13.0	–	–	3.3	12	1.50	6-pin DFN 1.5 x 1.5 x 0.45
 SKY67012-396LF	0.3–0.6 0.3–0.6	0.450 0.450	16.5 15.5	24.0 18.0	14.0 15.0	3.3 3.3	15 5	0.85 1.00	8-pin DFN 2 x 2 x 0.75
 SKY67013-396LF	0.6–1.5 0.6–1.5	0.900 0.900	14.0 12.5	26.0 22.2	15.5 15.5	3.3 3.3	15 5	0.85 1.10	8-pin DFN 2 x 2 x 0.75
 SKY67014-396LF	1.5–3.0	2.450	13.0 12.0	28.0 18.0	15.5 16.0	3.3 3.3	18 5	0.85 1.00	8-pin DFN 2 x 2 x 0.75
 SKY67015-396LF	0.03–0.3	0.250	15.5	16.0	12.0	3.3 3.3	18 5	0.80 1.05	8-pin DFN 2 x 2 x 0.75
 SKY67021-396LF	0.6–1.2	0.900	17.5	40.0	21.7	5.0	100	0.60	8-pin DFN 2 x 2 x 0.75
 SKY67022-396LF	1.6–2.2	1.850	17.5	39.5	22.0	5.0	95	0.65	8-pin DFN 2 x 2 x 0.75
 SKY67023-396LF	2.0–3.0	2.600	17.3	39.5	19.5	5.0	100	0.89	8-pin DFN 2 x 2 x 0.75
 SKY67100-396LF	1.2–3.0	1.950	17.5	34.0	18.5	4.0	56	0.70	8-pin DFN 2 x 2 x 0.75
 SKY67101-396LF	0.4–1.2	0.900	17.5	34.0	19.0	4.0	56	0.50	8-pin DFN 2 x 2 x 0.75
 SKY67102-396LF	2.0–3.0	2.600	17.2	33.8	15.0	4.0	50	0.80	8-pin DFN 2 x 2 x 0.9
 SKY67103-396LF	0.5–4.0	3.600	16.5	34.3	17.4	5.0	78	0.70	8-pin DFN 2 x 2 x 0.75
 SKY67105-306LF	0.6–1.1	0.850	37.0	41.0	26.0	5.0	138	0.70	16-pin QFN 4 x 4 x 0.9
 SKY67106-306LF	1.5–3.0	1.950	35.0	37.0	24.0	5.0	100	0.65	16-pin QFN 4 x 4 x 0.9
 SKY67107-306LF	2.3–2.8	2.600	32.0	37.5	18.5	5.0	125	0.85	16-pin QFN 4 x 4 x 0.9
 SKY67110-396LF	0.3–0.7	0.500	21.0	37.0	21.0	5.0	76	0.65	8-pin DFN 2 x 2 x 0.75
 SKY67111-396LF	0.7–1.2	0.900	20.7	39.6	20.0	5.0	77	0.50	8-pin DFN 2 x 2 x 0.75
 SKY67150-396LF	0.3–2.2	0.450 0.849 1.900	23.0 20.5 14.5	36.0 39.0 36.5	19.0 21.0 18.0	5.0 5.0 5.0	82 82 82	0.45 0.23 0.38	8-pin DFN 2 x 2 x 0.75
 SKY67151-396LF	0.7–3.8	0.900 1.900 2.500 3.600	26.0 20.5 19.0 16.5	36.0 36.0 37.0 34.0	22.0 19.0 19.0 19.0	5.0 5.0 5.0 5.0	80 70 70 70	0.25 0.35 0.49 0.70	8-pin DFN 2 x 2 x 0.75
 SKY67153-396LF	0.7–3.8	0.849 2.500 3.600	26.0 19.0 16.5	34.5 36.0 36.0	21.5 20.0 18.0	5.0 5.0 5.0	80 72 80	0.25 0.50 0.70	8-pin DFN 2 x 2 x 0.75




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Broad Market Low Noise Amplifiers (LNAs) and Low Noise Transistors

Low Noise Amplifiers (Continued)


Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	OP ₁ dB (dBm)	V _{DD} (V)	Typ. Supply Current (mA)	Typ. Noise Figure (dB)	Package (mm)
 SKY67159-396LF	0.2-3.8	0.7	17.5	31	18	3.3	45	0.95	8-pin DFN 2 x 2 x 0.75
		2.7	17.0	29	16	3.3	45	1	
		3.8	16.5	27	14.5	3.3	45	1.3	
 SKY67161-306LF	0.6-1.1	0.850	38.0	39.0	24.5	5	115	0.30	16-pin QFN 4 x 4 x 0.9
 SKY67175-306LF	2.32-2.34	2.34	30.5	31.0	19.0	5	80	0.55	16-pin QFN 4 x 4 x 0.9

Driver Amplifiers / Linear Amplifiers






Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	OP ₁ dB (dBm)	V _{DD} (V)	Typ. Supply Current (mA)	V _{CC} (V)	Typ. Quiescent Current (mA)	Typ. Noise Figure (dB)	Package (mm)
 SKY65009-70LF	0.25-2.5	1.960	12.0	42.0	27.0	-	-	3.3 or 5	100	4.3	4-pin SOT-89 4.5 x 2.5 x 1.5
 SKY65045-70LF	0.39-1.5	0.8975	14.0	37.5	25.0	-	-	5	46	1.8	4-pin SOT-89 4.5 x 2.5 x 1.5
SKY65080-70LF	1.5-2.5	1.850	15.0	40.5	21.0	-	100	5	66	2.3	4-pin SOT-89 4.5 x 2.5 x 1.5
SKY65081-70LF	2.0-3.0	2.600	14.3	43.9	22.3	-	75	5	55	2.0	4-pin SOT-89 4.5 x 2.5 x 1.5
SKY65094-360LF	0.698-0.915	0.830	17.0	46.5	25.5	-	200	5	130	3.2	8-pin DFN 2 x 2 x 0.9
SKY65095-360LF	1.6-2.1	1.880	15.0	46.5	27.0	-	320	5	135	4.4	8-pin DFN 2 x 2 x 0.9
 SKY65099-360LF	0.7-2.7	0.78	23.0	41.5	24.0	-	150	5	88	2.8	8-pin DFN 2 x 2 x 0.9
		2.15	15.8	41.0	24.0	-	170	5	88	2.6	
		2.60	14.5	41.3	24.0	-	158	5	88	2.5	

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Driver Amplifiers / Linear Amplifiers (Continued)

Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	OP ₁ dB (dBm)	V _{DD} (V)	Typ. Supply Current (mA)	V _{CC} (V)	Typ. Quiescent Current (mA)	Typ. Noise Figure (dB)	Package (mm)
SKY65162-70LF	0.4–2.7	0.915	20.0	46.5	28.0	5	400	–	188	–	4-pin SOT-89
		1.960	15.0	43.0	30.2	5	400	–	188	–	4.5 x 2.5 x 1.5
		2.400	13.2	43.5	29.5	5	400	–	188	–	
		2.400	13.2	43.8	30.0	5	400	–	188	–	
SKY65173-70LF	0.869–0.960	0.920	16.5	44.0	26.5	–	235	5	156	2.6	4-pin SOT-89 2.4 x 4.5 x 1.5
 SKY67130-396LF	0.7–2.7	2.600	13.0	39.0	16.0	–	–	3.3 or 5	22	2.6	8-pin DFN 2 x 2 x 0.75

Gain Block (General Purpose) Amplifiers

Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	P ₁ dB (dBm)	Typ. Quiescent Current (mA)	Typ. Noise Figure (dB)	Package (mm)
 SKY65013-70LF	0.1–7	2	12.5	29	12.5	40	5.5	4-pin SOT-89 4.5 x 2.5 x 1.5
 SKY65014-70LF	0.1–6	2	16.0	36	18.0	70	4.8	4-pin SOT-89 2.4 x 4.5 x 1.5
 SKY65015-70LF	0.1–6	2	18.0	35	17.0	70	4.2	4-pin SOT-89 4.5 x 2.5 x 1.5
 SKY65016-70LF	0.1–3	2	20.0	27	14.0	40	4.8	4-pin SOT-89 4.5 x 2.5 x 1.5
 SKY65017-70LF	0.1–6	2	20.0	35	20.0	100	4.5	4-pin SOT-89 4.5 x 2.5 x 1.5

Variable Gain Amplifiers (VGAs)

Part Number	Operating Frequency (MHz)	Architecture	Attenuation Type	Control Range (dB)	Step Size (dB)	Gain (dB)	Min. NF	IP3 (dBm)	P ₁ dB (dBm)	Supply Voltage (V)	Package (mm)
SKY65175	1710–1950	Single Channel	Analog	18.0	N/A	26.0	2.80	OIP3 = 41.5	OP ₁ dB = 29	5	12-pin MCM 8 x 8 x 1.35
SKY65186-11	330–2700	Dual Channel	Digital	31.5	0.5	13.5	5.00	OIP3 = 36	OP ₁ dB = 20	5	32-pin MCM 7 x 7 x 1.35
SKY65187-11	2000–2230	Single Channel	Analog	30.0	N/A	24.0	2.70	OIP3 = 41.5	OP ₁ dB = 28	5	12-pin MCM 8.385 x 8.385 x 1.35
 SKY65369-11	832–862	Single Channel	Analog	>35.0	Analog	42.0	0.85	IIP3 = 3.5	IP ₁ dB = -8.5	5	16-pin MCM 8 x 8 x 1.3
 SKY65370-11	814–849	Single Channel	Analog	>35.0	Analog	39.0	0.82	IIP3 = 5	IP ₁ dB = -8.5	5	16-pin MCM 8 x 8 x 1.3
 SKY65371-11	880–915	Single Channel	Analog	>35.0	Analog	39.0	0.82	IIP3 = 5	IP ₁ dB = -7.5	5	16-pin MCM 8 x 8 x 1.3
 SKY65372-11	699–748	Single Channel	Analog	>35.0	Analog	42.0	0.80	IIP3 = 2	IP ₁ dB = -10	5	16-pin MCM 8 x 8 x 1.3
 SKY65373-11	1710–1785	Single Channel	Analog	>35.0	Analog	42.0	0.82	IIP3 = 5	IP ₁ dB = -11	5	16-pin MCM 8 x 8 x 1.3
 SKY65374-11	1850–1915	Single Channel	Analog	>35.0	Analog	39.0	0.85	IIP3 = 5	IP ₁ dB = -7.5	5	16-pin MCM 8 x 8 x 1.3
 SKY65375-11	1920–1980	Single Channel	Analog	>35.0	Analog	43.0	0.90	IIP3 = 6	IP ₁ dB = -5.5	5	16-pin MCM 8 x 8 x 1.3
 SKY65376-11	2500–2570	Single Channel	Analog	>35.0	Analog	40.0	1.10	IIP3 = 5	IP ₁ dB = -6	5	16-pin MCM 8 x 8 x 1.3
SKY65385-11	791–821	Single Channel	Analog	33.0	N/A	34.0	4.20	46	31	5	12-pin MCM 8.385 x 8.385 x 1.35
 SKY65386-11	2620–2690	Single Channel	Analog	42.0	N/A	25.5	3.90	OIP3 = 41.5	OP ₁ dB = 28.5	5	12-pin MCM 8.385 x 8.385 x 1.35
 SKY65387-11	2000–2230	Single Channel	Analog	35.0	N/A	30.0	3.50	OIP3 = 42	OP ₁ dB = 28	5	12-pin MCM 8.385 x 8.385 x 1.35
SKY65388-11	695–866	Single Channel	Analog	34.0	N/A	29.0	4.50	43	26	5	12-pin MCM 8.385 x 8.385 x 1.35

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