

SKYWORKS®

| Wireless Infrastructure Solutions

Connecting Your World: Smart Solutions for Wireless Infrastructure

Wherever you are, Skyworks' infrastructure solutions are enabling faster data connectivity. Whether in a few cell phone towers thinly disguised as trees or in small cells hidden under stadium seats and lamp posts, our groundbreaking products are connecting people with the information they need.

Our broad portfolio spans RF components to complete subsystems—from the antenna connection to the baseband output—for applications ranging from small cells to repeaters to macro and massive MIMO base stations.

Partner with us on your next project to enable multimedia and data intensive platforms that are exploding across mobile, the Internet of Things and emerging 5G devices. We are at the forefront of developing revolutionary wireless solutions.



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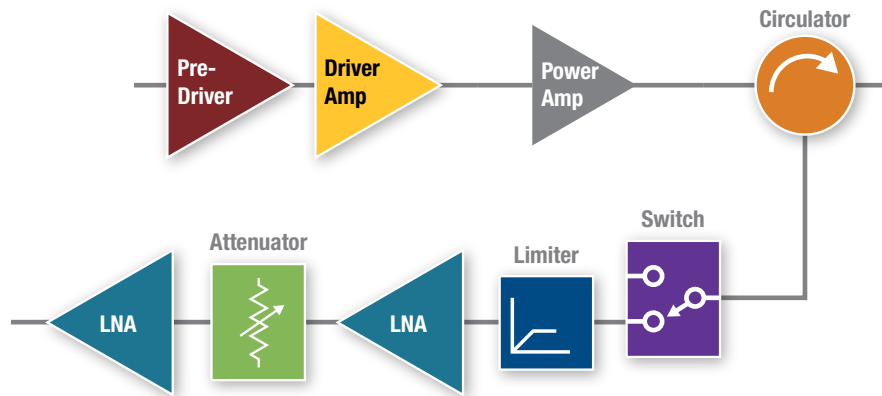
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It All Begins with Connectivity

Enabling Seamless Connections with Revolutionary Wireless Solutions

Below we invite you to explore a select group of our highly innovative infrastructure products. Our comprehensive list with full product specifications begins on page 4.



Massive MIMO Transceiver Building Blocks



Pre-Driver Amplifiers

SKY65017-70LF SKY66013-11
SKY66001-11 SKY66181-11



Limiters

SKY16601-555LF SKY16602-632LF



Driver Amplifiers

High Efficiency Requiring Digital Predistortion (DPD)
SKY662xx Series SKY663xx Series
Pin-to-Pin Compatible PA Family for 700 MHz to 5.9 GHz

Linear Amplifiers
AWB71xx Series AWB72xx Series



Low Noise Amplifiers

SKY67150-396LF SKY67180-306LF
SKY67154-396LF SKY67183-396LF
SKY67189-396LF



Digital Step Attenuators (Adjustment)

SKY12408-321LF SKY12329-350LF
SKY12355-337LF SKY12340-364LF
SKY12345-362LF AA116-72LF



Circulators

SKYFR-001 Series



Switches

SKY1224x Series SKY13522-644LF
SKY12207-478LF SKY13372-467LF

Switch + LNA

SKY73214-11 SKY73217-21

Product Specifications

Specification tables for products in this brochure are provided on the following pages.

Skyworks Green™ products are compliant to all applicable materials legislation and are halogen-free. For additional information, please refer to Skyworks Definition of Green™ document number SQ04-0074.

NEW products (purple, bold) are continually being introduced at Skyworks. For a complete list of our newest products, please visit the New Products section of our website at www.skyworksinc.com.

Coming Soon products (blue, bold) indicates products that will be available soon for purchase.

Amplifiers

Low Noise Amplifiers

Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Gain (dB)	OIP3 (dBm)	OP _{1dB} (dBm)	V _{DD} (V)	Typ. Supply Current (mA)	Typ. NF (dB)	Package (mm)
SKY67021-396LF	0.6–1.2	0.9	17.5	+40	+21.7	5	100	0.6	8-pin DFN 2 x 2 x 0.75
SKY67022-396LF	1.6–2.2	1.85	17.5	+39.5	+22	5	95	0.65	8-pin DFN 2 x 2 x 0.75
SKY67023-396LF	2.0–3.0	2.6	17.3	+39.5	+19.5	5	100	0.89	8-pin DFN 2 x 2 x 0.75
SKY67150-396LF	0.3–2.2	0.45 1.9	23 14.5	+36 +36.5	+19 +18	5	82	0.45 0.38	8-pin DFN 2 x 2 x 0.75
SKY67151-396LF	0.7–3.8	0.849 1.840 3.600	26.0 20.5 16.5	+34.5 +36.0 +36.0	+21.5 +20.5 +18	5	80 70 80	0.25 0.35 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	80 72 80	0.25 0.50 0.70	8-pin DFN 2 x 2 x 0.75
SKY67154-396LF	0.7–3.8	2.5	19	+38	+21	5	72	0.55	8-pin DFN 2 x 2 x 0.75
SKY67159-396LF	0.2–6.0	0.7 2.7 3.8 3.5	17.5 17.0 16.5 14.0	+31 +29 +27 +29	+18.0 +16.0 +14.5 +15.5	3.3 3.3 3.3 5.0	45	0.95 1.00 1.30 1.70	8-pin DFN 2 x 2 x 0.75
SKY67178-11	3.4–3.8	3.6	17	+27	–	1.8/3.3/5	113	1.65	16-pin MCM 6 x 6 x 0.97
SKY67179-306LF	1.5–3.8	2.6	34	+35	+18	5	113	0.65	16-pin QFN 4 x 4 x 0.90
SKY67180-306LF	1.5–3.8	2.6 3.5	34 31	+36 +34	+15	5	125	0.64 0.80	16-pin QFN 4 x 4 x 0.90
SKY67113-11	1.7–2.7	2.7	12.5	+37	–	5	107	5.15	36-pin SMT 6 x 6 x 0.95
SKY67114-11	3.4–3.8	3.8	13	+36	+20	5	130	6.5	36-pin SMT 6 x 6 x 0.95
SKY67183-396LF	3.5–6.0	3.8 4.7 5.9	17 15 15	+36	+18	3.3	70	0.7 0.9 0.9	8-pin DFN 2 x 2

Amplifiers

Low Noise Amplifiers

Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Gain (dB)	OIP3 (dBm)	OP _{1 dB} (dBm)	V _{DD} (V)	Typ. Supply Current (mA)	Typ. NF (dB)	Package (mm)
SKY67188-396LF	1.5–4.0	1.5	22	+36	+20	3.3	70	0.7	8-pin DFN 2 x 2
		2.2	22		+20			0.7	
		2.7	22		+19			0.7	
		3.8	20		+19			1.0	
SKY67189-396LF	0.4–6.0	0.4–1.1	22	+36	+20	3.3	75	0.6	8-pin DFN 2 x 2
		1.1–2.2	22	+36	+20			0.7	
		2.2–2.7	22	+36	+19			0.7	
		2.7–3.8	22	+36	+18			0.7	
		3.8–6.0	20	+34	+19			1.0	

High Efficiency DPD-Friendly Power Amplifiers

Part Number	Frequency (GHz)	Band	Typ. Gain (dB)	Power (dBm)	Power Added Efficiency (%)	iBW (MHz)	V _{DD} (V)	Typ. Quiescent Current (mA)	Package (mm)
SKY66296-11	0.700–0.800	12, 13, 14, 17, 29, 44	35	+28	43	20	5	70	16-pin MCM 5 x 5 x 1.3
SKY66289-11	0.791–0.821	20	36.1	+28	35.5	20	5	70	16-pin MCM 5 x 5 x 1.3
SKY66295-21	0.800–0.900	5, 18, 19, 26, 27	34	+28	36	20	5	135	16-pin MCM 5 x 5 x 1.3
SKY66298-11	0.9–0.99	8	34	+28	40	20	5	86	16-pin MCM 5 x 5 x 1.3
SKY66291-11	1.8–1.88	3, 9	37.5	+28	36.5	20	5	80	16-pin MCM 5 x 5 x 1.3
SKY66391-12	1.805–1.880	3, 9	37	+28	34.5	40	5	80	16-pin MCM 5 x 5 x 1.3
SKY66299-11	1.9–2.0	2, 25, 33, 36, 37	36	+28	35	20	5	80	16-pin MCM 5 x 5 x 1.3
SKY66399-11	1.930–1.935	2, 25, 33, 36, 37	36.5	+28	34	40	5	90	16-pin MCM 5 x 5 x 1.3
SKY66294-11	2.1–2.2	1, 4, 10, 23	36	+28	37	20	5	75	16-pin MCM 5 x 5 x 1.3
SKY66394-11	2.100–2.200	1, 4, 10, 23	36	+28	35	40	5	105	16-pin MCM 5 x 5 x 1.3
SKY66292-11	2.3–2.4	30, 40	35.5	+28	36.5	20	5	70	16-pin MCM 5 x 5 x 1.3
SKY66312-11	2.300–2.400	30, 40	35	+23	22	100	5	75	16-pin MCM 5 x 5 x 1.3
SKY66297-11	2.49–2.69	7, 38, 41	32.5	+28	36	20	5	85	16-pin MCM 5 x 5 x 1.3
SKY66317-11	2.490–2.700	7, 38 and 41	35	+23	22	100	5	75	16-pin MCM 5 x 5 x 1.3
SKY66397-12	2.570–2.690	38, 41	35	+28	35	40	5	95	16-pin MCM 5 x 5 x 1.3
SKY66293-21	3.4–3.8	22, 42, 43	33.5	+28	29	20	5	85	16-pin MCM 5 x 5 x 1.3

Amplifiers

High Efficiency DPD-Friendly Power Amplifiers

Part Number	Frequency (GHz)	Band	Typ. Gain (dB)	Power (dBm)	Power Added Efficiency (%)	iBW (MHz)	V _{DD} (V)	Typ. Quiescent Current (mA)	Package (mm)
SKY66313-11	3.400–3.600	22, 42	36	+23	15	100	5	115	16-pin MCM 5 x 5 x 1.3
SKY66315-11	4.400–5.000	n79	35	+23	20	100	5	75	16-pin MCM 5 x 5 x 1.3
SKY66288-11	5.150–5.925	LTE-U, 46	>30	+28	20–25	40	5	95	16-pin MCM 5 x 5 x 1.3
SKY66318-11	3.300–3.600	22, 42	36	+28	20	100	5	115	16-pin MCM 5 x 5 x 1.3
SKY66299-21	1.900–2.000	2, 25, 33, 36, 37	36	+28	28	20	5	110	16-pin MCM 5 x 5 x 1.3
SKY66291-21	1.805–1.880	3, 9	37.5	+28	31.5	20	5	80	16-pin MCM 5 x 5 x 1.3
SKY66319-11	4.800–5.000	China 5G	35	+28	40	200	5	100	16-pin MCM 5 x 5 x 1.3

Linear Power Amplifiers, +19 dBm Output Power

Part Number	Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	P _{1dB} (dBm)	ACLR (5 MHz WCDMA) (dBc)	V _{DD} (V)	Typ. Quiescent Current (mA)	Package (mm)
SKY66001-11	2.10–2.20	30	+40	+27	< -48	4.2	57	10-pin MCM 3 x 3 x 0.9
SKY66002-11	1.9–2.025	30	+40	+27	< -48	4.2	60	10-pin MCM 3 x 3 x 0.9
SKY66005-11	0.85–0.92	30	+40	+27	< -48	4.2	46	10-pin MCM 3 x 3 x 0.9
SKY66008-11	0.90–0.99	30	+40	+27	< -48	4.2	48	10-pin MCM 3 x 3 x 0.9
SKY66013-11	0.7–0.8	27.5	+40	+27	< -48	4.2	46	10-pin MCM 3 x 3 x 0.9

Linear Power Amplifiers, +23 dBm Output Power

Part Number	Frequency (GHz)	Typ. Gain (dB)	OIP3 (dBm)	P _{1dB} (dBm)	ACLR (5 MHz WCDMA) (dBc)	V _{DD} (V)	Typ. Quiescent Current (mA)	Package (mm)
SKY66181-11	1.805–1.88	39	+44	+31	< -48	3.3	360	28-pin MCM 5 x 5 x 1.25
SKY66184-11	2.1–2.2	39	+44	+31	< -48	3.3	400	28-pin MCM 5 x 5 x 1.25
SKY66185-11	0.85–0.9	36.5	+44	+30	< -48	3.3	130	28-pin MCM 5 x 5 x 1.25
SKY66186-11	0.728–0.768	37	+44	+31	< -48	3.3	125	28-pin MCM 5 x 5 x 1.25
SKY66188-11	0.758–0.803	37	+44	+31	< -48	3.3	155	28-pin MCM 5 x 5 x 1.25
SKY66189-11	1.930–1.995	40	+44	+31	< -48	3.3	370	28-pin MCM 5 x 5 x 1.25

Amplifiers

Linear Power Amplifiers, +24.5 dBm Output Power

Part Number	Frequency (GHz)	Typ. Gain (dB)	Power Added Efficiency (%)	Supply Voltage (V)	Package (mm)
AWB7122	1.805–1.880	30	16	4.2	14-pin SMT 7 x 7 x 1.3
AWB7123	1.93–1.99	32	18	4.2	14-pin SMT 7 x 7 x 1.3
AWB7124	0.728–0.768	30	14.5	4.2	14-pin SMT 7 x 7 x 1.3
AWB7125	0.860–0.894	30	16	4.2	14-pin SMT 7 x 7 x 1.3
AWB7127	2.11–2.17	32	18	4.2	14-pin SMT 7 x 7 x 1.3
AWB7128	2.545–2.69	28	16	4.2	14-pin SMT 7 x 7 x 1.3
AWB7129	0.925–0.960	30	16	4.2	14-pin SMT 7 x 7 x 1.3
AWB7132	2.3–2.4	28	16	4.2	14-pin SMT 7 x 7 x 1.3
AWB7138	0.791–0.821	30	15	4.2	14-pin SMT 7 x 7 x 1.3

Linear Power Amplifiers, +27 dBm Output Power

Part Number	Frequency (GHz)	Typ. Gain (dB)	Power Added Efficiency (%)	Supply Voltage (V)	Package (mm)
AWB7222	1.805–1.880	32	14	4.5	14-pin SMT 7 x 7 x 1.3
AWB7223	1.93–1.995	29	14	4.5	14-pin SMT 7 x 7 x 1.3
AWB7224	0.728–0.768	29	13	4.5	14-pin SMT 7 x 7 x 1.3
AWB7225	0.860–0.894	29.5	14	4.5	14-pin SMT 7 x 7 x 1.3
AWB7227	2.11–2.17	29	14	4.5	14-pin SMT 7 x 7 x 1.3
AWB7228	2.496–2.69	28	14	4.5	14-pin SMT 7 x 7 x 1.3
AWB7229	0.925–0.960	29	14	4.5	14-pin SMT 7 x 7 x 1.3
AWB7231	2.01–2.025	29	14	4.8	14-pin SMT 7 x 7 x 1.3
AWB7232	2.3–2.4	29	15	4.5	14-pin SMT 7 x 7 x 1.3
AWB7238	0.791–2.821	30	14	4.5	14-pin SMT 7 x 7 x 1.3
AWB7239	1.850–1.930	30	14	4.5	14-pin SMT 7 x 7 x 1.3

Attenuators

Digital Step Attenuators

Part Number	Frequency (GHz)	Bits	LSB	P _{1dB} (dBm)	Attenuation (dB)	In Loss (dB)	IIP3 (dBm)	Package (mm)
SKY12408-321LF	0.05–0.6	2/P	6	+34	12	0.3	+49	12-pin QFN 3 x 3
SKY12407-321LF	0.05–0.60	2/P	12	+31	15	0.3	+48	12-pin QFN 3 x 3
SKY12355-337LF	0.35–4.0	2/P	6	+28	12	0.45–0.75	+47	12-pin QFN 3 x 3 x 0.75
SKY12349-362LF	0.7–4.0	5/S	0.5	+32	18	1.2–2.0	+42	24-pin QFN 4 x 4 x 0.9
SKY12348-350LF	0.1–3.0	4/P	1	+30	7	0.8–1.2	+45	16-pin QFN 3 x 3 x 0.75
SKY12345-362LF	0.7–4.0	5/S	0.5	+32	15.5	1.2–2.0	+42	24-pin QFN 4 x 4 x 0.9
SKY12343-364LF	0.01–4.0	7/P	0.25	+35	15.5	1.8–1.9	+50	32-pin QFN 5 x 5 x 0.9
SKY12340-364LF	0.3–2.0	5/S	0.5	+30	31	1.4–1.8	+45	32-pin QFN 5 x 5 x 0.9
SKY12329-350LF	0.4–4.0	5/P	1	+29	31	1.2–2.7	+39	16-pin QFN 3 x 3 x 0.75
SKY12325-350LF	0.5–6.0	3/P	1	+27	15.5	0.7–1.3	+47	16-pin QFN 3 x 3 x 0.75
AA116-72LF	LF–2.0	1/P	15	+20	31.75	0.35–0.4	+41	SOT-23 5L 2.8 x 2.9 x 1.18

Circulators

Circulators for Wireless Infrastructure Applications

Part Number	Frequency (MHz)	Band	Power (W) (Avg/Peak)	Insertion Loss (dB)	Isolation/Return Loss (dB)	IMD (dBc)	IMD Conditions	Rotation	Case Size (Inch / mm)	Package
SKYFR-001385	729–756	37	60 / 200	0.32	23 / 23	-65	2 x 5 W CW Tones, 5 MHz Spacing	CW	0.94 / 23.8	SMT–Robust Lead
SKYFR-001723	758–788	14	80 / 250	0.38	23 / 18	-52	2 x 20W CW Tones, 1 MHz spacing	CW	0.61 / 15.5	SMT–Robust Lead
SKYFR-000892	2400–2500		80 / 500	0.3	23 / 21	-60	2 x 25W CW Tones, 5 MHz spacing	CW	0.61 / 15.5	SMT–Robust Lead
SKYFR-001549	860–894	5,6,18,19	80 / 250	0.35	20 / 20	-56	2 x 20W CW Tones, 1 MHz spacing	CW	0.61 / 15.5	SMT–Robust Lead
SKYFR-001387	1805–1880	39	20 / 100	0.25	20 / 20	-60	2 x 5W CW Tones, 1 MHz spacing	CW	0.40 / 10.2	SMT–Robust Lead
SKYFR-001400	925–960	8	80 / 250	0.3	22 / 22	-56	2 x 20W CW Tones, 1 MHz spacing	CW	0.61 / 15.5	SMT–Robust Lead
SKYFR-001505	1880–2025	2,25,33,36,37	70 / 500	0.3	21 / 22	-60	2 x 20W CW Tones, 1 MHz spacing	CCW	0.49 / 12.5	SMT–Robust Lead
SKYFR-001388	1930–1995	2,25,33,36,37	20 / 100	0.25	20 / 20	-60	2 x 5W CW Tones, 1 MHz spacing	CW	0.40 / 10.2	SMT–Robust Lead

Circulators

Circulators for Wireless Infrastructure Applications

Part Number	Frequency (MHz)	Band	Power (W) (Avg/Peak)	Insertion Loss (dB)	Isolation/Return Loss (dB)	IMD (dBc)	IMD Conditions	Rotation	Case Size (Inch / mm)	Package
SKYFR-001688	2110–2170	1,4,10,23	70 / 500	0.2	25 / 23	-60	2 x 20W CW Tones, 1 MHz spacing	CW	0.49 / 12.5	SMT–Robust Lead
SKYFR-001739	2110–2200	23	20 / 100	0.25	20 / 20	-60	2 x 5W CW Tones, 1 MHz spacing	CW	0.40 / 10.2	SMT–Robust Lead
SKYFR-001493	2300–2400	30,40	50 / 120	0.25	21 / 21	-60	2 x 15W CW Tones, 1 MHz spacing	CW	0.49 / 12.5	SMT–Robust Lead
SKYFR-001685	2496–2690	7,38,41	70 / 500	0.25	22 / 23	-60	2 x 20W CW Tones, 1 MHz spacing	CW	0.43 / 10.8	SMT–Robust Lead
SKYFR-001692	3400–3600	22,42	20 / 160	0.23	21 / 22	-60	2 x 5W CW Tones, 1 MHz spacing	CW	0.40 / 10.2	SMT–Robust Lead
SKYFR-001709	3600–3800	43	20 / 160	0.23	21 / 22	-60	2 x 5W CW Tones, 5 MHz spacing	CW	0.40 / 10.2	SMT–Robust Lead
SKYFR-001705	4400–5000	LTE-U	50 / 200	0.35	21 / 21	-60	2 x 20W CW Tones, 1 MHz spacing	CW	0.49 / 12.5	SMT–Robust Lead
SKYFR-001693	5150–5925	LTE-U	10 / 30	0.4	18 / 18	-60	2 x 1W CW Tones, 1 MHz spacing	CW	0.40 / 10.2	SMT–Robust Lead

Limiters

Limiter Modules

Part Number	RF Test Freq. (GHz)	Typ. Insertion Loss (dB) Pin = 0 dBm	Typ. Return Loss (dB) Pin = 0 dBm	Typ. Threshold Level (dBm)	Max. Saturated Power (W)	Typ. Flat Leakage Power (dBm)	Package (mm)
SKY16601-555LF	0.50–6.0	0.1	27.5	+11	29	13 (Pin = +20 dBm)	2-pin MLP 2.5 x 2.5 x 0.75
SKY16602-632LF	0.90 2.45	0.3 0.5	14 25	+6 +5	30 23	6 (Pin = +10 dBm) 4 (Pin = +10 dBm)	16-ball CSP 1.991 x 1.991 x 0.695

Switches

SPDT (SP2T) RF Switches

Part Number	Description (Absorptive/ Reflective)	Frequency (GHz)	Typ. IL (dB)	Typ. Isol. (dB)	Typ. IIP3 (dBm)	Typ. IP _{0.1 dB} (dBm)	Max. Tx Power (W)	Package (mm)
SKY12245-492LF	SPDT (R)	0.3–3.8	0.1–0.35	46–43	+86	+50	100	6-pin SC-70 2 x 1.25 x 0.9
SKY12247-492LF	SPDT (R)	3.4–3.8	0.3	40	+86	+50	100	12-pin QFN 2 x 2 x 0.55
SKY12210-478LF	SPDT (R)	0.9–3.4	0.4	44	+78	+49	100	16-pin QFN 4 x 4 x 1.5
SKY12207-478LF	SPDT (R)	0.9–4.0	0.4	42	+78	+47	50	16-pin QFN 4 x 4 x 1.5
SKY13392-359LF	SP4T (A)	0.02–4.0	0.9–1.5	60–46	+47	+30	1.5	16-pin QFN 4 x 4 x 0.9
SKY13286-359LF	SPDT (A)	0.1–6.0	0.8–1.5	62–42	+46	+30	1	16-pin QFN 4 x 4 x 0.9
SKY13581-676LF	SPDT (A)	0.4–3.8	0.35–0.6	25–36	+66	+35	2.5	9-pin QFN 1.1 x 1.1 x 0.5
SKY13522-644LF	SPDT (A)	0.7–6.0	0.6–0.9	35–53	+57	+32	0.5	8-pin QFN 1.1 x 1.1 x 0.45
SKY13372-467LF	SPDT (A)	0.1–6.0	0.8–1.7	40–56	+42	+28	1	16-pin QFN 4 x 4 x 0.9

SP4T RF Switches

Part Number	Description (Absorptive/ Reflective)	Frequency (GHz)	Typ. IL (dB)	Typ. Isol. (dB)	Typ. IIP3 (dBm)	Typ. IP _{0.1 dB} (dBm)	Max. Tx Power (W)	Package (mm)
SKY13392-359LF	SP4T (A)	0.02–4.0	0.9–1.5	60–46	+47	+30	1.5	16-pin QFN 4 x 4 x 0.9

Switches + Low Noise Amplifiers

Part Number	Frequency (GHz)	Description	NF (dB)	Rx Isol. (dB)	Rx Gain (dB)	Tx IL (dB)	Tx Isol. (dB)	Max. Tx Power (W)	Package (mm)
SKY73214-11	2.3–2.7	SPDT + LNA	1.2	70	23 (Low Gain Mode)	0.5	54	60	16-pin MCM 8 x 8 x 1.3
SKY73217-21	3.4–3.8	SPDT + LNA	1.3	70	33	0.5	54	60	16-pin MCM 8 x 8 x 1.3

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