

Our MMIC Product Matrix contains a snapshot view of our current product line. As Mimix strives to provide extensive applications engineering support and customer service, the product development categories for our MMIC devices should help design engineers understand our nomenclature.

■ Production Devices ■ Pre-production Devices

To obtain a complete datasheet of any product, please visit www.mimixbroadband.com or contact us via email at info@mimixbroadband.com to request a copy. For more information call 281.988.4600.

Amplifiers - Buffer

Description	Part Number	Frequency (GHz)	Gain (dB)	Gain Flatness (dB)	Noise Figure (dB)	Output P1dB (dBm)	OIP3 (dBm)	Bias (mA @ V)
Buffer Amplifier (Low Noise/Power)	XB1004 ■	16.0-30.0	20.0 / 21.0	+/- 1.0	2.2 / 3.2	+14.0 / +19.0	+24.0 / +29.0	90 @ 4.0 / 180 @ 6.0
Buffer Amplifier (QFN)	XB1004P2 ■	16.0-28.5	19.0 / 20.0	+/- 1.5	3.0 / 4.0	+12.0 / +17.0	+23.0 / +28.0	90 @ 4.0 / 180 @ 6.0
Buffer Amplifier (Low Noise/Power)	XB1006 ■	18.0-38.0	21.0	+/- 2.0	3.2 / 4.5	+9.0 / +15.0	+19.0 / +25.0	50 @ 3.5 / 100 @ 5.5
Buffer Amplifier (Low Noise/Power)	XB1005 ■	35.0-45.0	19.0 / 23.0	+/- 1.0	2.7 / 3.7	+13.0 / +16.0	+23.0 / +26.0	50 @ 3.5 / 154 @ 4.5
Buffer Amplifier (Low Noise/Power)	XB1002 ■	36.0-43.0	24.0	+/- 2.5	4.0	+14.0 / +17.0	+24.0 / +27.0	110 @ 3.0 / 220 @ 5.5

Amplifiers - Distributed

Description	Part Number	Frequency (GHz)	Gain (dB)	Gain Flatness (dB)	Noise Figure (dB)	Output P1dB (dBm)	Bias (mA @ V)
Distributed Amplifier (Gain Control)	XD1002 ■	0.05-50.0	9.0	+/- 1.5	5.0	+9.0	120 @ 8.5
Distributed Amplifier	22DSBA0423 ■	10.0-40.0	17.0	+/- 2.5	5.0	-	115 @ 5.0
Distributed Amplifier (Gain Control)	XD1001 ■	18.0-50.0	17.0	+/- 1.0	5.0	+15.0	160 @ 5.0

Amplifiers - Low Noise

Description	Part Number	Frequency (GHz)	Gain (dB)	Gain Flatness (dB)	Noise Figure (dB)	Output P1dB (dBm)	OIP3 (dBm)	Bias (mA @ V)
Low Noise Amplifier (Balanced/Single Supply)	XL1005 ■	5.0-20.0	13.0	+/- 2.0	2.2	+16.0	+24.0	30 @ 5.0
Low Noise Amplifier (Balanced/Single Supply)	XL1001 ■	17.0-35.0	14.0	+/- 1.5	2.5	+4.0	+16.0	55 @ 5.0
Low Noise Amplifier (Balanced/Single Supply)	XL1002 ■	20.0-36.0	23.0	+/- 1.5	2.6	+4.0	+16.0	85 @ 5.0
Low Noise Amplifier (Single Supply)	XL1000 ■	20.0-40.0	20.0	+/- 4.0	2.0	+8.0	+16.0	35 @ 3.0 / 50 @ 5.0
Low Noise Amplifier (QFN)	XL1000P2 ■	20.0-30.0	19.0	+/- 2.0	3.5	+5.0	-	35 @ 3.0 / 50 @ 5.0
Low Noise Amplifier (Balanced/Single Supply)	XL1003 ■	24.0-40.0	15.0	+/- 3.5	1.7	+11.0	+19.0	65 @ 5.0
Low Noise Amplifier (Balanced/Single Supply)	XL1004 ■	35.0-45.0	18.0	+/- 2.0	2.0	+6.0	+14.0	85 @ 4.0

Amplifiers - Power

Description	Part Number	Frequency (GHz)	Gain (dB)	Gain Flatness (dB)	Output P1dB (dBm)	OIP3 (dBm)	Bias (mA @ V)
Power Amplifier	XP1006	8.5-11.0	21.0	+/- 0.5	+40.0 (Psat)	-	4.2 A @ 8.0
Power Amplifier	XP1014	8.5-11.0	18.0	+/- 1.0	+31.0 (Psat)	-	450 @ 8.0
Power Amplifier	XP1008	11.0-16.0	31.0	+/- 0.5	+30.0	+38.5	925 @ 5.0
Power Amplifier	15MPA0566	11.0-19.0	20.0	+/-1.0	+27.0 (Psat)	-	380 @ 5.0
Power Amplifier	XP1009	17.0-21.0	20.0	+/- 0.5	+29.5	+38.0	900 @ 5.0
Power Amplifier	18MPA0567	17.0-22.0	22.0	+/-0.5	+27.0 (Psat)	-	450 @ 5.0
Power Amplifier (Detector)	XP1000	17.0-24.0	19.0	+/- 1.0	+25.0	+36.0	430 @ 5.5
Power Amplifier	XP1013	17.0-26.0	20.0	+/- 2.0	+24.0 (Psat)	-	320 @ 6.0
Power Amplifier (Doubler)	20DBL0629	18.0-21.0 (fin) 36.0-42.0 (fout)	26.0	+/-0.5	+26.0 (Psat)	-	530 @ 4.5
Power Amplifier	XP1010	21.0-24.0	19.0	+/- 0.5	+30.0	+39.0	950 @ 5.0
Power Amplifier	28MPA0304	24.0-34.0	16.0	+/- 1.0	+24.0 (Psat)	-	320 @ 6.0
Power Amplifier	29MPA0373	26.0-31.0	32.0	+/- 1.0	+26.0	+36.0	1.1 A @ 4.5
Power Amplifier (Detector)	XP1001	26.0-40.0	11.0	+/- 1.0	+21.0	+31.0	430 @ 5.5
Power Amplifier	30SPA0553	27.0-32.0	22.0	+/- 1.0	+33.0	-	1.0 A @ 6.0
Power Amplifier (Balanced)	30SPA0536	27.0-33.0	21.0	+/- 1.0	+35.0 (Psat)	-	2.1 A @ 6.0
Power Amplifier (Detector)	XP1003	27.0-35.0	15.0	+/- 1.0	+24.0	+34.0	440 @ 4.5
Power Amplifier	30MPA0562	28.0-31.0	27.0	+/- 1.0	+30.0 (Psat)	-	420 @ 5.0
Power Amplifier (Detector)	XP1017	30.0-36.0	16.0	+/- 0.5	+24.0	+33.0	440 @ 4.5
Power Amplifier (Balanced)	XP1005	35.0-43.0	26.0	+/- 2.0	+24.0 (Psat)	-	500 @ 4.5
Power Amplifier	38MPA0547	35.0-45.0	23.0	+/- 1.0	+25.0	+34.0	475 @ 5.0
Power Amplifier	XP1011	36.0-40.0	21.0	+/- 0.5	+27.0	+36.0	640 @ 5.0
Power Amplifier	XP1012	37.0-40.0	15.0	+/- 0.5	+28.0	+37.0	1080 @ 5.0
Power Amplifier (Balanced)	XP1015	43.5-46.5	13.0	+/- 1.0	+31.0	-	2.8 A @ 5.0
Power Amplifier	XP1016	43.5-46.5	14.0	+/- 1.0	+24.0	-	720 @ 5.0
Power Amplifier	44MPA0478	43.5-46.5	14.0	+/- 1.0	+29.0	-	1.4 A @ 5.0

Mixers

Description	Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Frequency (GHz)	Conversion Loss (dB)	IIP3 (dBm)	LO Input Power (dBm)
Image Reject	XM1001 ■	12.0-40.0	8.0-42.0	DC-4.0	8.0	+24.0	+12.0
Image Reject	18KWR0327 ■	13.0-25.0	11.0-29.0	DC-4.0	7.0	+19.0	+16.0
Balanced	26BAM0545 ■	18.0-40.0	14.0-44.0	DC-4.0	9.0	+25.0	+12.0
Image Reject	38IRM0363 ■	32.0-42.0	15.0-23.0	DC-4.0	9.0	+14.0	+12.0
Balanced	XM1000 ■	32.0-46.0	29.0-47.0	DC-3.0	7.0	+25.0	+15.0
Image Reject	XM1002 ■	34.0-46.0	30.0-50.0	DC-4.0	8.0	+24.0	+12.0
Balanced Image Reject	40IRM0540 ■	37.0-46.0	33.0-50.0	DC-4.0	12.0	+27.0	+15.0

Multipliers

Description	Part Number	RF In (GHz)	RF Out (dB)	Pin (dBm)	Pout (dBm)	Bias (mA @ V)
Doubler	5DBL0644 ■	2.5-6.0	5.0-12.0	-3.0	+16.0	140 @ 5.0
Doubler	XX1000 ■	7.5-22.5	15.0-45.0	+0.0	+15.0	200 @ 5.0 / 25 @ -2.0
Doubler	20DBL0451 ■	8.0-12.0	16.0-24.0	+12.0	+16.0	135 @ 3.5
Doubler	12DBL0409 ■	10.0-13.0	20.0-26.0	+9.0	+15.0	70 @ 3.5
Doubler	30DBL0537 ■	14.5-17.0	29.0-34.0	+2.0	+20.0	190 @ 5.0
Doubler (QFN)	30DBL0537P2 ■	14.0-16.0	28.0-32.0	+4.0	+20.0	200 @ 5.0
Doubler	20DBL0629 ■	18.0-21.0	36.0-42.0	+0.0	+26.0	530 @ 4.5

Oscillators

Description	Part Number	Output Frequency (GHz)	Output Power (dBm)	10kHz SSB Phase Noise (dBc/Hz)	100kHz SSB Phase Noise (dBc/Hz)	Bias (mA @ V)
Integrated VCO	6OSC0460 ■	5.5-6.5	+4.5	-77	-97	20 @ -5.0
Feedback Oscillator (Self-contained)	9OSC0315 ■	5.5-8.4 (divide-by-4 out)	+4.0 (+1.0)	-56	-80	155 @ -6.0 105 @ -5.0
Integrated VCO	6OSC0461 ■	5.8-6.9	+5.0	-77	-97	20 @ -5.0
Feedback Oscillator (External Filter Required) Doubler Incl.)	9OSC0313 ■	6.0-12.0 (divide-by-4 out) (doubler out)	+6.0 (+1.0) (+3.0)	-76* (-70)	-100* (-94)	155 @ -6.0 210 @ -5.0
Integrated VCO	7OSC0462 ■	6.4-7.4	+5.0	-77	-97	20 @ -5.0
Integrated VCO	7OSC0463 ■	6.8-7.9	+4.5	-77	-97	20 @ -5.0
Integrated VCO	8OSC0464 ■	7.4-8.6	+5.0	-77	-97	20 @ -5.0
Integrated VCO (On-chip Prescaler)	14OSC0501 ■	14.2-15.2	+6.0	-	-88	110 @ +4.0
Integrated VCO (On-chip Prescaler)	15OSC0502 ■	14.7-15.7	+5.0	-	-88	110 @ +4.0

Prescalers & Dividers

Description	Part Number	RF In (GHz)	RF Out (GHz)	Pin (dBm)	Pout (dBm)	Bias (mA @ V)
Divide-by-Four	8SDV0500 ■	2.0-16.0	0.5-4.0	-20.0-0.0	+5.0	100 @ 5.0

Receivers

Description	Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Bandwidth (GHz)	Conversion Gain (dB)	Noise Figure (dB)	Image Rejection (dBc)	LO Input Power (dBm)	Bias (mA @ V)
Receiver (LO Buffer)	14REC0607 ■	11.0-17.0	8.0-20.0	DC-3.0	13.5	3.0	20.0	+3.0	150 @ 5.0
Receiver	XR1000 ■	17.0-27.0	15.0-29.0	DC-2.0	10.0	3.5	15.0	+15.0	90 @ 3.0
Receiver (LO Buffer)	XR1006 ■	18.0-25.0	7.0-11.5	DC-3.0	8.0	2.5	15.0	+2.0	250 @ 4.0
Receiver (Attenuator)	XR1002 ■	18.0-34.0	14.0-38.0	DC-4.0	2.0-14.0	3.0	25.0	+15.0	135 @ 4.5
Receiver (LO Buffer)	XR1005 ■	19.0-26.0	8.0-14.5	DC-3.0	8.0	2.5	20.0	+2.0	250 @ 4.0
Receiver (LO Buffer)	29REC0239 ■	24.0-34.0	10.5-18.5	DC-3.0	8.0	3.0	20.0	+2.0	250 @ 4.0
Receiver (LO Buffer)	26REC0603 ■	26.0-32.0	23.0-35.0	DC-3.0	12.0	-	20.0	+2.0	410 @ 5.0
Receiver (LO Buffer)	XR1004 ■	30.0-46.0	15.0-25.0	DC-4.0	9.0	3.5	18.0	+2.0	200 @ 4.0
Receiver	XR1001 ■	33.0-40.0	15.5-21.5	DC-3.0	9.0	4.0	12.0	+12.0	30 @ 3.0

Transmitters

Description	Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Bandwidth (GHz)	Conversion Gain (dB)	LO Input Power (dBm)	Output P1dB (dBm)	Output IP3 (dBm)	Bias (mA @ V)
Transmitter (LO Buffer, IR)	14TX0614 ■	10.0-18.0	7.0-21.0	DC-3.0	9.0	+6.0	-	+17.0	350 @ 5.0 140 @ -5.0
Transmitter	XU1000 ■	17.0-27.0	15.0-29.0	DC-2.0	0.0	+12.0	+2.0	+12.0	23 @ 3.0
Transmitter (LO Buffer, IR)	XU1002 ■	18.0-25.0	7.0-11.5	DC-3.0	10.0	+2.0	+12.0	+20.0	350 @ 4.0
Transmitter (LO Buffer, GC)	26TX0555 ■	18.0-36.0	7.0-20.0	DC-4.0	9.0	+2.0	+16.0	+25.0	515 @ 5.0
Transmitter (LO Buffer, IR)	XU1003 ■	19.0-26.0	8.0-14.5	DC-3.0	10.0	+2.0	+12.0	+20.0	350 @ 4.0
Transmitter (LO Buffer, IR)	27TRX0357 ■	27.0-36.0	11.5-20.0	DC-4.0	9.0	+2.0	+13.0	+21.0	370 @ 4.0
Transmitter (Image Reject)	XU1001 ■	33.0-40.0	15.5-21.5	DC-3.0	8.0	+12.0	+11.0	+20.0	30 @ 3.0
Transmitter (LO Buffer)	XU1004 ■	35.0-45.0	16.0-25.0	DC-4.0	5.0	+4.0	+6.0	+14.0	300 @ 4.0



Broadband InGaP HBT Gain Blocks & MMICs: 50-Ω Matched HBT Darlington-Pair MMIC Amplifiers to 6 GHz

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	Test Volts	Bare Die	SOT-86	SOT-89
CGB7001	0.1-6.0	14.2	20.5	28.0	3.3	35	5 to 8V	-BD	-SP	-SC
CGB7003	0.1-6.0	16.6	20.7	31.5	2.9	50	5 to 8V	-BD	-SP	-SC
CGB7004	0.1-6.0	17.0	16.0	33.5	3.6	62	5 to 8V	-BD	-	-SC
CGB7005	0.1-6.0	17.6	22.0	32.5	3.0	63	5 to 8V	-BD	-SP	-SC
CGB7006	0.1-6.0	18.0	15.2	32.0	5.3	68	5 to 8V	-BD	-	-SC
CGB7007	0.1-6.0	18.8	19.0	34.0	4.5	67	5 to 8V	-BD	-	-SC
CGB7008	0.1-6.0	18.8	21.2	33.5	3.2	64	5 to 8V	-BD	-SP	-SC
CGB7009	0.1-6.0	19.2	16.8	33.8	3.9	69	5 to 8V	-BD	-	-SC
CGB7010	0.1-6.0	20.3	21.5	35.5	3.2	75	5 to 8V	-BD	-SP	-SC
CGB7011	0.1-6.0	21.0	21.7	36.0	3.4	82	5 to 8V	-BD	-SP	-SC
CGB7012	0.1-6.0	20.3	15.7	36.0	4.3	86	5 to 8V	-BD	-	-SC

Broadband InGaP HBT Gain Blocks & MMICs: 50-Ω Matched HBT Darlington-Pair MMIC Amplifiers to 8 GHz

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	Test Volts	Bare Die	SOT-89
CGB7014	0.1-8.0	20.0	23.9	35.3	4.4	78	5 to 8V	-BD	-SC
CGB7015	0.1-8.0	21.1	24.2	36.6	4.2	90	5 to 8V	-BD	-SC
CGB7016	0.1-8.0	17.7	22.5	33.5	4.1	63	5 to 8V	-BD	-SC
CGB7017	0.1-8.0	18.2	23.1	33.8	3.3	70	5 to 8V	-BD	-SC

Broadband InGaP HBT Gain Blocks & MMICs: HBT High Dynamic Range MMIC Amplifiers

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	Test Volts	Bare Die	SOT-89
CGB7289 (@ 2140 MHz)	0.1-2.5	23.7	13.3	41.0	5.5	115	5 to 8V	-BD	-SC
CGB7389 (@ 2450 MHz)	0.1-2.7	23.5	13.0	40.5	4.5	115	5 to 8V	-BD	-SC

MESFET High Dynamic Range MMIC Amplifiers

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	Test Volts	Bare Die	SOT-89	3x3 LGA
CMM6001-SC	0.6-3.0	20.5	12.5	37.0	2.8	75	3 to 5V	-BD	-SC	-
CMM6003-SC	0.05-0.9	22.0	17.0	41.0	1.9	150	3 to 5V	-BD	-SC	-
CMM6004-SC	0.3-3.0	23.0	14.5	43.0	2.1	150	3 to 5V	-BD	-SC	-
CMM6004-AH	0.3-6.0	23.0	18.5	43.0	1.7	150	3 to 5V	-BD	-	-AH

Internally Matched Packaged MMIC Gain Blocks

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	I/P & O/P R/L	Test Volts	Bare Die	Package
CMM2305	0.8-2.7	17.0	20	27	3.5	85	10/10	3 to 6V	-	-AR
CMM2306	1.5-2.5	17.0	20	26	3.1	75	8/8	3 to 6V	-	-AJ
CMM2308	1.0-2.7	17.0	19	27	2.2	75	8/10	3 to 6V	-	-AJ

Packaged Low Noise GaAs FETs

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	Test Volts	Package
CFB0101	0.1-15.0	18.5	21.5	28.0	1.0	40	6V	-B
CFB0103	0.1-15.0	19.0	22.0	29.0	0.7	15	3V	-B
CFB0301	0.1-15.0	21.0	17.0	34.0	0.8	70	4V	-B
CFB0303	0.1-15.0	21.0	20.0	34.0	0.5	75	4V	-B
CFK0301	0.1-15.0	19.5	23.5	31.0	0.8	70	4V	-AK
CFS0303-SB	0.1-10.0	17.0	22.4	32.0	0.2	60	3V	-SB
CDQ0303-QS	0.1-10.0	17.0	23.5	32.0	0.2	50	3V	-QS

Low Noise GaAs FET Die (All Measurements at 12 GHz)

Model No.	Freq (GHz)	P1dB (dBm)	MSG (dB)	OIP3 (dBm)	NF (dB)	Idss (mA)	Test Volts	Rth Deg/W	Die Size (um)	Gate W/L (um)
CF001-1	1.0-32.0	19.0	17.5	29.0	1.6	60	3 to 6V	150	400x250	300/0.3
CF001-03	1.0-40.0	17.0	18.5	27.0	0.8	60	3 to 6V	150	400x250	300/0.3
CF003-01	1.0-26.0	22.0	15.0	32.0	1.8	180	3 to 6V	80	720x250	600/0.3
CF003-03	1.0-34.0	20.0	15.5	30.0	1.0	180	3 to 6V	80	720x250	600/0.3
CF004-01	1.0-40.0	15.0	15.0	25.0	2.2	30	3 to 6V	300	230x250	150/0.3
CF004-03	1.0-45.0	13.0	16.0	23.0	1.5	30	3 to 6V	300	230x250	150/0.3
CF007-01	1.0-20.0	16.0	18.9	27.0	2.2	60	3 to 5.5V	150	420x250	Dual Gate 300/0.5

Medium and High Power GaAs FETs in Package

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Padded Eff %	Icc (mA)	Test Volts	Rth Deg/W	Package
CFC0301 (@ 12 GHz)	0.1-18.0	23.0	10.0	34.0	2.6	-	80	6V	85	-C (Hermetic)
CFK2062-P1	0.8-1.0	30.0	20.0	40.0	-	42	400	8V	12	-AK
CFK2062-P3	1.8-2.2	31.0	13.5	41.0	-	40	400	8V	12	-AK
CFK2062-P5	2.3-2.5	30.5	12.0	41.0	-	40	400	8V	12	-AK
CFK2162-P1	0.8-1.0	34.0	20.0	44.0	-	43	800	8V	9	-AK
CFK2162-P3	1.8-2.2	34.0	14.0	44.0	-	43	800	8V	9	-AK
CFK2162-P5	2.3-2.5	33.5	12.0	44.0	-	43	800	8V	9	-AK
CFH2162-P1	0.8-1.0	36.0	19.0	47.0	-	43	1300	8V	7.5	-H
CFH2162-P3	1.8-2.2	36.0	13.0	47.0	-	43	1300	8V	7.5	-H
CFH2162-P5	2.3-2.5	35.5	10.0	46.0	-	42	1300	8V	7.5	-H

High Power Packaged InGaP HBTs

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	Padded Eff %	Icc (mA)	Test Volts	Rth Deg/W	Package
CHV2710	1.0-4.0	37.0	13.0	51.0	41	450	8 to 12 V	5	PSOP8
CHV2712 (Dual Pair)	1.0-4.0	>37.0	13.0	>51.0	41	450 x 2	8 to 12 V	3.5	PSOP16

Medium Power GaAs FET Chips

Model No.	Freq (GHz)	P1dB (dBm)	MSG (dB)	OIP3 (dBm)	Idss (mA)	Test Volts	Rth Deg/W	Die Size (um)	Gate W/L (um)
CF003-01	1.0-26.0	22.0	15.0	32.0	180	6V	80	720 x 250	600/≤0.3
CF005-01	1.0-24.0	25.0	15.5	35.0	310	6V	50	470 x 320	1200/≤0.5
CF010-01	1.0-22.0	28.0	15.0	38.0	700	6V	25	850 x 320	2400/≤0.5
CF015-11	1.0-24.0	25.0	16.0	33.0	310	6V	40	1350 x 250	1200/≤0.3

2-12 GHz Medium Power MMIC Amplifier Chips

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	Test Volts	Rth Deg/W	Die Size (um)	Bare Die
CMM-2	2.0-12.0	10.0	13.0	20.0	5.5	35	5 to 8V	60	1000 x 750	-BD
CMM-5	2.0-6.0	18.0	16.5	28.0	5.5	100	5 to 8V	60	1000 x 1020	-BD
CMM-9	2.0-8.0	17.0	15.0	27.0	5.5	80	5 to 8V	80	1000 x 900	-BD
CMM1200	2.0-6.0	15.5	17.5	25.5	3.5	100	5 to 8V	34	1600 x 1550	-BD

DC to 32 GHz MMIC Amplifier Chips

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	OIP2 (dBm)	NF (dB)	Icc (mA)	Test Volts	Rth Deg/W	Die Size (um)	Bare Die
CMM2030	.0003-32.0	18.0	12.0	25.0	35.0	4.5	100	5 to 8V	60	2420 x 1150	-BD
CMM3030	.0003-30.0	23.0	9.0	30.0	40.0	4.5	275	5 to 8V	18	2420 x 1150	-BD

2-20 and 6-18 GHz MMIC Amplifier Chips

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	OIP2 (dBm)	NF (dB)	Icc (mA)	Test Volts	Rth Deg/W	Die Size (um)	Bare Die
CMM3020	.0003-20.0	23.0	10.0	31.0	40.0	6.5	250	5 to 8V	18	2420 x 1150	-BD
CMM0014 @ 18 GHz	2.0-22.0	24.0	11.0	33.5	42.3	7.0	295	5 to 8V	25	2300 x 1100	-BD
CMM0015 @ 18 GHz	2.0-22.0	27.0	10.5	35.0	44.0	7.5	350	8 to 12V	18	2320 x 1300	-BD
CMM0016 @ 18 GHz	2.0-20.0	29.0	10.0	37.0	47.0	7.5	690	8 to 12V	15.7	2320 x 1300	-BD
CMM0618	6.0-18.0	29.0	10.0	36.0	45.0	7.5	775	5 to 8V	15	2815 x 1980	-BD

2-18 GHz Low Noise MMIC Amplifiers

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	OIP2 (dBm)	NF (dB)	Icc (mA)	Test Volts	Rth Deg/W	Die Size (um)	Bare Die	Package
CMM4000	2.0-20.0	19.0	8.0	29.5	39.0	3.5	115	5 to 8V	82	1890 x 1000	-BD	-
CMM1100	2.0-18.0	15.0	17.5	25.0	41.0	3.5 (max)	100	5 to 8V	34	1600 x 1550	-BD	-QT (3x3mm)
CMM1110	2.0-18.0	13.0	16.0	22.0	31.0	3.0 (max)	55	5 to 8V	60	2000 x 1100	-BD	-QT (3x3mm)

Ku-Band Power Amplifier Modules and Chips

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	Icc (mA)	Test Volts	Rth Deg/W	Package
CMM1118	11.0-18.0	14.0	20.0	85	5 to 7V	65	-QT (3x3mm)
CMM0511	5.0-11.0	14.0	20.0	-	5 to 7V	-	-QT (3x3mm)
CMM1331	12.7-13.5	31.0	30.0	800	5 to 7V	12	-SM (6x6mm)
CMM1431	13.7-14.5	31.5	30.0	840	5 to 7V	12	-SM (6x6mm)
CMQ1432	13.75-14.5	31.0	31.5	-	5 to 7V	-	-QH (4x4mm)
CMM1631	14.5-19.7	30.5	29.0	800	5 to 7V	12	-SM (6x6mm)
CMM1434	13.7-14.5	34.0	29.0	1800	5 to 7V	7	-SM (6x6mm)

2-4 GHz Packaged Amplifier RFICs

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	Vdd (Volts)	Package
CMM2321-AK	2.3-2.5	30.0	20.0	5.0	PSOP-8
CMM3566-LC	3.4-3.5	29.0	28.0	7.0	4x4mm LCC