



# MMIC Module Selection Guide

 南京舜特科通信技术有限公司  
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## ■ MMIC Module

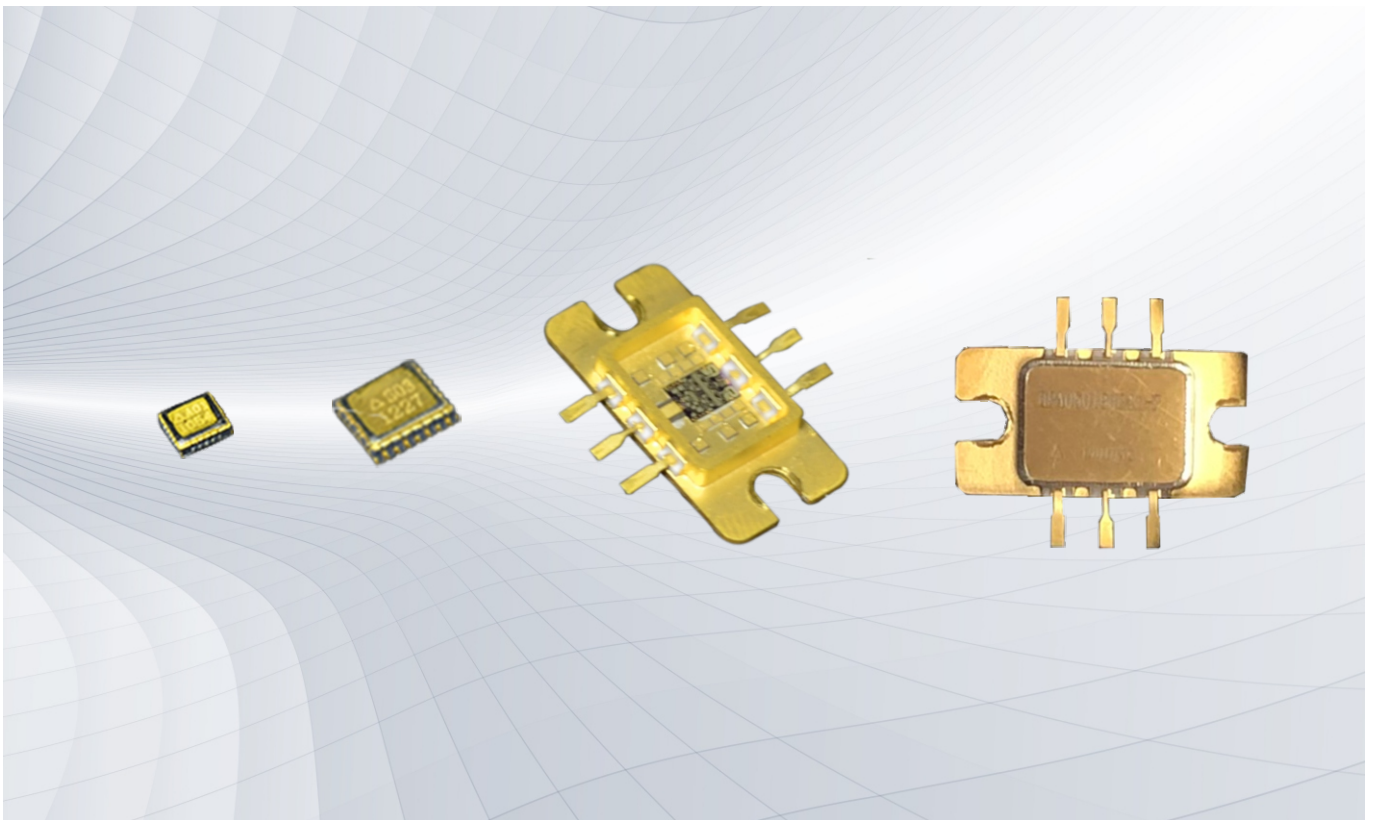
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# INTRODUCTION

Monolithic microwave integrated circuit, or MMIC, is a type of integrated circuit (IC) device that operates at microwave frequencies (300 MHz to 300 GHz). Based on in house GaAs (Gallium Arsenide) and GaN (Gallium Nitride) Foundry, we' re able to provide a wide range of MMIC modules such as amplifiers, switches, limiters, phase shifters and so on.

These MMIC modules are used for applications like radar, EW, automobile telematics and sensors, radio and wireless communication sets, satellite remote sensing and telemetry.

If you don' t find an existed part which fits your requirement, please contact us to evaluate the possibility of customization. You' re welcomed to visit our website to get the most updated product information and data sheets.



# GaN Power Amplifier

www.sainty-tech.com

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pout (dBm)	Power Gain (dB)	Linear Gain (dB)	PAE (%)	Vd (V)	Vg (V)	Mode	Dimension (mm)	Package	Datasheet
SFBN003020-P39	0.3	2	38.5	12.5	19	40	28	-2	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN012014-P27	1.2	1.4	27	22	24	13	28	-1.8	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN020180-P35	2	18	34.5	7.5	12	20	28	-1.8	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN020065-P44	2	6.5	44	16	28	34	28	-2	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN020060-P43	2	6	43	20	30	30	28	-2	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN050120-P46	5	12	46	21	27	25	28	-1.1	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN050060-P48	5	6	48	25	30	35	28	-1.8	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN050060-P46	5	6	46	22	28	43	28	-1.8	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN050060-P27	5	6	27	17	27	20	28	/	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN060180-P37	6	18	37	16	22	20	28	-1.5	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN060075-P46	6	7.5	46	22	31	35	28	-2.4	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN070085-P41	7	8.5	41	23	35	45	28	-1.8	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN080140-P43	8	14	43	20	30	35	24/28	-1.8	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN080120-P47	8	12	47	18	23	35	28	-2	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN080120-P46	8	12	46	20	28	38	28	-2	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN080120-P44	8	12	44	21	28	35	28	-1.8	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN080120-P43	8	12	43	20	28	35	28	-2.5	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN080120-P42	8	12	42	21	30	35	28	-1.8	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN080120-P27	8	12	27	21	25	15	28	/	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN085105-P47	8.5	10.5	47	19	29	38	28	-1.7	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN090100-P44	9	10	44	25	40	50	28	-1.8	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN090100-P42	9	10	42	23	32	55	20	-1.8	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN100180-P43	10	18	43	19	22	30	28	-1.8	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN100180-P27	10	18	27	17	20	15	28	/	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN135155-P45	13	15.5	45	20	23	33	28	-2.4	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN140180-P47	14	18	46.5	21.5	29	30	28	-2.1	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN140180-P43	14	18	43	23	30	35	28	-2.7	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN150170-P43	15	17	43	22	28	36	28	-2.1	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN150170-P42	15	17	41.5	18.5	30	30	28	-2.5	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN150170-P40	15	17	40	21	34	35	28	-2.1	PL	18.03*8.7*2.24	JF06F007	N/A
SFBN200230-P40	20	23	40	20	30	30	24	-2	PL	19.2*9.15*1.84	JF14F001	N/A
SFBN320380-P41	32	38	40	14	19	25	24	-2	PL	19.2*9.15*1.84	JF14F001	N/A

# GaN Power Amplifier

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Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pout (dBm)	Power Gain (dB)	Linear Gain (dB)	PAE (%)	Vd (V)	Vg (V)	Mode	Dimension (mm)	Package	Datasheet
SFBN330370-P41	33	37	40.5	12.5	19	30	24	-2	PL	19.2*9.15*1.84	JF14F001	N/A
SFBN370430-P39	37	43	38.5	9.5	24	14	20	-2	PL	19.2*9.15*1.84	JF14F001	N/A

# GaAs Power Amplifier

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Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pout (dBm)	Power Gain (dB)	Linear Gain (dB)	PAE (%)	Voltage (V)	Vg (V)	Dimension (mm)	Package	Datasheet
SFB020120-P30	2	12	30	15	19	25	8	-0.5	18.03*8.7*2.24	JF06F007	N/A
SFB020060-P40	2	6	40	39	45	25	9	-0.5	28.6*23*8	SMA-1	N/A
SFB020060-P37	2	6	37	33	39	25	9	-0.5	28.6*23*8	SMA-1	N/A
SFB027035-P41	2.7	3.5	41	25	28	25	8.5	-0.5	21*13*5.5	JF04F002	N/A
SFB053059-P42	5.3	5.9	42	25	30	30	9	-0.6	18.03*8.7*2.24	JF06F007	N/A
SFB060180-P39	6	18	39	33	39	15	8	-5	53.6*39*8	Metal package	N/A
SFB060180-P36	6	18	36	34	40	25	8	-0.5	28.6*23*8	SMA-1	N/A
SFB077085-P41	7.7	8.5	41	25	32	40	9	-0.7	18.03*8.7*2.24	JF06F007	N/A
SFB080120-P42	8	12	41.7	40	44	25	8	-0.5	28.6*23*8	SMA-1	N/A
SFB080120-P41	8	12	40.5	38.5	44	30	8	-0.6	28.6*23*8	SMA-1	N/A
SFB080120-P33-1	8	12	33	21	24	30	8	-0.6	18.03*8.7*2.24	JF06F007	N/A
SFB080120-P33	8	12	33	23	24	30	8	-0.5	17.78*8.33*2.5	JY06F001	N/A
SFB085105-P42	8.5	10.5	42	40	46	30	8	-0.5	28.6*23*8	SMA-1	N/A
SFB085105-P40	8.5	10.5	40	22	25	30	8	-0.6	18.03*8.7*2.24	JF06F007	N/A
SFB088100-P39	8.8	10	39	19	30	40	8	-0.6	18.03*8.7*2.24	JF06F007	N/A
SFB145170-P40	14.5	17	39.5	23.5	30	35	8	-0.5	18.03*8.7*2.24	JF06F007	N/A
SFB145170-P35	14.5	17	34.5	24.5	30	35	8	-0.8	18.03*8.7*2.24	JF06F007	N/A
SFB250270-P37	25	27	36	18	24	30	6	-0.8	19.2*9.15*1.84	JF14F001	N/A
SFB250270-P21	25	27	21	23	28	30	5	-0.6	19.2*9.15*1.84	JF14F001	N/A
SFB290320-P37	29	32	36.5	14.5	21	25	6	-0.7	19.2*9.15*1.84	JF14F001	N/A
SFB340360-P36	34	36	36	14	17	20	6.5	-0.6	19.2*9.15*1.84	JF14F001	N/A

# GaAs Driver Amplifier

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Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pout (dBm)	Linear Gain (dB)	VSWRin	VSWRout	Voltage (V)	Current (mA)	Dimension (mm)	Package	Datasheet
SFB002010-P15	0.2	1	15	12	1.5	1.5	5	56	4*4*1.5	JC24F010	N/A
SFB003035-P19	0.3	3.5	19	20	1.3	1.3	5	78	5.08*5.08*1.25	JC12F003	N/A
SFB003030-P16	0.3	3	16	19.5	1.3	1.3	5	44	5.08*5.08*1.25	JC12F003	N/A
SFB003025-P23	0.3	2.5	23	19	1.4	1.5	8	137	5.08*5.08*1.25	JC12F003	N/A
SFB003025-P14	0.3	2.5	14	19.5	1.3	1.3	5	47	5.08*5.08*1.25	JC12F003	N/A
SFB003020-P14	0.3	2	14	16.5	1.3	1.3	5	39	5.08*5.08*1.25	JC12F003	N/A
SFB008040-P17	0.8	4	17	20	1.3	1.3	5	62	5.08*5.08*1.25	JC12F003	N/A
SFB008035-P13	0.8	3.5	13	20	1.3	1.3	5	48	5.08*5.08*1.25	JC12F003	N/A
SFB010030-P22	1	3	22	19	1.4	1.5	8	134	5.08*5.08*1.25	JC12F003	N/A
SFB015035-P13	1.5	3.5	13	16	1.3	1.2	5	35	5.08*5.08*1.25	JC12F003	N/A
SFB020050-P11	2	5	11	16	1.3	1.3	5	35	5.08*5.08*1.25	JC12F003	N/A
SFB050060-P21	5	6	21	16	1.7	1.5	8	92	5.08*5.08*1.25	JC12F003	N/A
SFB060180-P21-2	6	18	21	21	2	1.8	5/8	200	5.08*5.08*1.25	JC32F005	N/A
SFB060180-P17	6	18	17	15	1.8	1.5	5	95	5.08*5.08*1.25	JC32F005	N/A
SFB080120-P23-1	8	12	23	14	1.5	1.5	8	95	5.08*5.08*1.25	JC32F005	N/A
SFB080120-P23	8	12	23	14	2	1.8	8	95	4*4*1	Plastic Package	N/A
SFB080120-P21-4	8	12	21	23	1.4	1.5	8	100	5.08*5.08*1.25	JC32F005	N/A

# Wideband High Power Amplifier

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Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pout (dBm)	Power Gain (dB)	Linear Gain (dB)	PAE (%)	Vd (V)	Vg (V)	Mode	Dimension (mm)	Package	Datasheet
SFBN020200-P40	2	20	39.5	7.5	8	15	28	-1.8	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN020180-P40	2	18	40	15	22	18	28	-2	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN020060-P44	2	6	44	16	28	34	28	-2	CW	18.03*8.7*2.24	JF06F007	N/A
SFB020180-P23	2	18	23	13	19	15	5	-0.6	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN060180-P41	6	18	40.5	15.5	28	25	28	-1.8	CW	18.03*8.7*2.24	JF06F007	N/A
SFB260400-P35	26	40	34.5	11.5	19	16	6	-0.8	CW	19.2*9.15*1.84	JF14F001	N/A
SFB300400-P33	30	40	32.5	15.5	21	22	6	-0.8	CW	19.2*9.15*1.84	JF14F001	N/A



Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pout (dBm)	Power Gain (dB)	Linear Gain (dB)	PAE (%)	Vd (V)	Vg (V)	Mode	Dimension (mm)	Package	Datasheet
SFBN003020-P39-CP	0.3	2	38.5	12.5	19	40	28	-2	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN012014-P27-CP	1.2	1.4	27	22	24	13	28	-1.8	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN020200-P40-CP	2	20	39.5	7.5	8	15	28	-1.8	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN020180-P35-CP	2	6	34.5	7.5	12	20	28	-1.8	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN020060-P45-CP	2	6	45	21	26	35	28	-1.8	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN020065-P44-CP	2	6.5	44	16	28	34	28	-2	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN020060-P43-CP	2	6	43	20	30	30	28	-2	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN050120-P46-CP	5	12	46	21	27	25	28	-1.1	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN050120-P45-CP	5	12	45	20	26	30	28	-1.8	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN050060-P48-CP	5	6	48	25	30	35	28	-1.8	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN050060-P46-CP	5	6	46	22	28	43	28	-1.8	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN050060-P27-CP	5	6	27	17	27	20	28	/	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN060180-P43-CP	6	18	43	15	27	20	28	-1.8	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN060180-P41-CP	6	18	40.5	15.5	28	25	28	-1.8	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN060180-P37-CP	6	18	37	16	22	20	28	-1.5	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN060075-P46-CP	6	7.5	46	22	31	35	28	-2.4	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN070085-P41-CP	7	8.5	41	23	35	45	28	-1.8	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN080140-P43-CP	8	14	43	20	30	35	24/28	-1.8	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN080120-P47-CP	8	12	47	18	23	35	28	-2	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN080120-P46-CP	8	12	46	20	28	38	28	-2	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN080120-P45-CP	8	12	44.5	21.5	28	35	28	-1.6	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN080120-P44-CP	8	12	44	21	28	35	28	-1.8	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN080120-P43-CP	8	12	43	20	28	35	28	-2.5	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN080120-P42-CP	8	12	42	21	30	35	28	-1.8	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN080120-P27-CP	8	12	27	21	25	15	28	/	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN085105-P47-CP	8.5	10.5	47	19	29	38	28	-1.7	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN090100-P44-CP	9	10	44	25	40	50	28	-1.8	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN090100-P42-CP	9	10	42	23	32	55	20/24	-1.8	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN100180-P43-CP	10	18	43	19	22	30	28	-1.8	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN100180-P27-CP	10	18	27	17	20	15	28	/	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN130155-P45-CP	13	15.5	45	20	23	33	28	-2.4	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN140180-P47-CP	14	18	46.5	21.5	29	30	28	-2	PL	15.2*15.2*3.5	JF10F001	N/A

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pout (dBm)	Power Gain (dB)	Linear Gain (dB)	PAE (%)	Vd (V)	Vg (V)	Mode	Dimension (mm)	Package	Datasheet
SFBN140180-P43-CP	14	18	43	23	30	35	28	-2.7	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN150170-P43-CP	15	17	43	22	28	36	28	-2.1	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN150170-P42-CP	15	17	41.5	18.5	30	30	28	-2.5	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN150170-P40-CP	15	17	40	21	34	35	28	-2.1	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN200230-P40-CP	20	23	40	20	30	30	24	-2	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN270320-P39-CP	27	32	39	17	22	25	20	-2	CW	15.2*15.2*3.5	JF10F001	N/A
SFBN320380-P41-CP	32	38	40	14	19	25	24	-2	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN330370-P41-CP	33	37	40.5	12.5	19	30	24	-2	PL	15.2*15.2*3.5	JF10F001	N/A
SFBN370430-P39-CP	37	43	38.5	9.5	24	14	20	-2	CW	15.2*15.2*3.5	JF10F001	N/A

Part Number	Low Freq. (GHz)	Stop Freq. (GHz)	Pout (dBm)	Power Gain (dB)	Linear Gain (dB)	PAE (%)	Voltage (V)	IM3 (dBc)	Mode	Dimension (mm)	Package	Datasheet
SFBN100180-P27	10	18	27	16	19	8	28	-25dBc@21dBm	CW	18.03*8.7*2.24	JF06F007	N/A
SFBN130155-P45	13	15.5	45	20	23	33	28	-20dBc@39dBm	CW	18.03*8.7*2.24	JF06F007	N/A
SFB135145-P37	13.5	14.5	37	19	24	40	8	-25dBc@32dBm	CW	18.03*8.7*2.24	JF06F007	N/A
SFB250270-P36	25	27	36	18	24	30	6	-25dBc@31dBm	CW	19.2*9.15*1.84	JF14F001	N/A
SFB250270-P21	25	27	21	23	28	30	5	-25dBc@16dBm	CW	19.2*9.15*1.84	JF14F001	N/A
SFP290320-P38	29	32	38.5	13.5	19	20	6	-20dBc@33dBm	CW	16.5*13.3*0.5	Mocu Carrier	N/A
SFB290320-P37	29	32	36.5	14.5	21	25	6	-20dBc@31dBm	CW	19.2*9.15*1.84	JF14F001	N/A

# Carrier Power Amplifier

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pout (dBm)	Power Gain (dB)	Linear Gain (dB)	PAE (%)	Vd (V)	Vg (V)	Mode	Dimension (mm)	Package	Datasheet
SFPN012014-P48	1.2	1.4	48	26	30	60	28	-2.2	PL	8*7.6*1.1	Mocu Carrier	N/A
SFPN020060-P46	2	6	46	18	27	27	28	-1.8	PL	20.4*16.2*2.8	Mocu Carrier	N/A
SFPN050060-P50	5	6	50	26	36	29	28	-1.8	PL	20.4*16.2*2.8	Mocu Carrier	N/A
SFP052056-P44	5.2	5.6	45	24.5	26	38	9	-0.6	PL	13*12*1.1	Mocu Carrier	N/A
SFPN060180-P43	6	18	43	15	24	23	28	-1.6	PL	20.4*16.2*2.8	Mocu Carrier	N/A
SFPN080120-P49	8	12	49	19	28	35	28	-1.8	PL	20.4*16.2*2.8	Mocu Carrier	N/A
SFP135145-P39	13.5	14.5	39	15	23.5	25	8	-0.7	CW	20.4*16.2*2.8	Mocu Carrier	N/A
SFPN140180-P49	14	18	49	21	27	27	28	-2	PL	20.4*16.2*2.8	Mocu Carrier	N/A

# Low Noise Amplifier

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Linear Gain (dB)	P-1 (dBm)	VSWR <sub>in</sub>	VSWR <sub>out</sub>	Noise Figure (dB)	Voltage (V)	Current (mA)	Dimension (mm)	Package	Datasheet
SFB002010-L17	0.2	1	16.5	16	1.8	1.5	1.7	5	64	4*4*1.4	JC20F003	N/A
SFB008032-L20	0.8	3.2	17	17	1.5	1.7	2	5	72	5.08*5.08*1.25	JC12F003	N/A
SFB008032-L10	0.8	3.2	19	5	1.4	1.6	1	5	70	5.08*5.08*1.25	JC12F003	N/A
SFB7117H	5	6	25	13	1.8	1.8	1.5	5	55	11*16*4.7	JW04F016	N/A
SFB070130-L17	7	13	21	15	2	2.2	1.7	5	47	5.08*5.08*1.25	JC32F005	N/A
SFB080120-L17-1	8	12	22	5	2	2	1.7	3.3	33	4*4*1	Plastic Package QFN20	N/A
SFB080120-L17	8	12	24	5	2	2	1.7	3.3	33	5.08*5.08*1.25	JC32F005	N/A

Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	I.L. (dB)	Isolation (dB)	VSWR <sub>in</sub>	VSWR <sub>out</sub>	Switch Time (ns)	Control	Dimension (mm)	Package	Datasheet
SKB101A000040S	SP1T	0	4	1.2	50	1.2	1.2	10	TTL	5.08*5.08*1.25	JC12F003	N/A
SKB101A000060	SP1T	0	6	1.1	40	1.4	1.4	10	TTL	10*10*2	Q16-01HA	N/A
SKB104A000040S	SP4T	0	4	1.5	40	1.2	1.3	20	0/5V	5.08*5.08*1.25	JC12F003	N/A
SKB102000040	SPDT	0	4	1.3	45	1.3	1.3	10	TTL	10*10*2	Q17-01H	N/A
SKB103A000034	SP3T	0	3.4	1.3	40	1.3	1.3	10	TTL	10*10*2	Q16-01HA	N/A
SKB103000030	SP3T	0	3	1.1	40	1.3	1.3	10	TTL	10*10*2	Q16-01HA	N/A
SKB106000025	SP6T	0	2.5	1.6	45	1.3	1.3	10	TTL	10*10*2	Q20-01H	N/A
SKB104000025	SP4T	0	2.5	1.4	45	1.3	1.3	10	TTL	10*10*2	Q17-01H	N/A
SKB102A000040S	SPDT	0	4	1	50	1.3	1.3	20	TTL	5.08*5.08*1.25	JC12F003	N/A
SKB202001020S	SPDT	0.1	2	1.5	40	1.3	1.3	50	TTL	5.08*5.08*1.25	JC12F003	N/A
SKB102A002040S	SPDT	0.2	4	1.2	50	1.4	1.4	50	0/5V	4*4*1.4	JC20F003	N/A
SKBQ104A010040SM	SP4T	1	4	1	40	1.5	1.5	10	TTL	3*3*0.75	Plastic Package	N/A
SKBQ104A010040S	SP4T	1	4	1	40	1.5	1.5	10	TTL	3*3*0.75	Plastic Package	N/A
SKB103A012014B	SP3T	1.2	1.4	1.1	50	1.3	1.3	10	TTL	10*10*2	Q16-01HA	N/A
SKB103A012014A	SP3T	1.2	1.4	1.2	50	1.3	1.3	10	TTL	10*10*2	Q16-01HA	N/A
SKB103A029031	SP3T	2.9	3.1	1.5	40	1.2	1.2	20	TTL	10*10*2	Q16-01HA	N/A
SKB103030034	SP3T	3	3.4	1.2	40	1.3	1.3	10	TTL	10*10*2	Q16-01HA	N/A
SKB102031034	SPDT	3.1	3.4	1	35	1.3	1.3	10	TTL	10*10*2	Q17-01H	N/A

# Limiting LNA

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Gain (dB)	VSWRin	VSWRout	P-1 (dBm)	Noise Figure (dB)	Voltage (V)	Handling Power (W)	Dimension (mm)	Package	Datasheet
SFP7001H	1.2	1.4	28	1.6	1.4	8	1.2	5	100	8*6*1	Carrier	N/A
SIB012014-P50L10	1.2	1.4	28	1.8	1.8	5	1	5	50	7*7*1.45	JC48F011	N/A
SIB050060-P100L14	5	6	24	1.6	1.6	12	1.7	5	35	16*11*4	JW04F016	N/A
SIB085105-P60L23	8.5	10.5	16.5	1.3	1.2	2	2.3	5	60	18*8.7*2.2	JF06F007	N/A

Part Number	Low Freq. (GHz)	High Freq. (GHz)	I.L. (dB)	VSWRin	VSWRout	Limit Power (dBm)	Recovery Time (ns)	Handling Power (W)	Dimension (mm)	Package	Datasheet
SIB005030-C2S	0.05	3	0.6	1.2	1.2	17	< 200	2	4*4*1.5	JC24F010	N/A
SIB080120-C10S	8	4	1	2	2	20	< 200	10	7.2*7.2*1.3	JC48F007	N/A



Part Number	Low Freq. (GHz)	High Freq. (GHz)	Bit	Accuracy (°)	I.L. (dB)	ΔI.L. (dB)	VSWR <sub>in</sub>	VSWR <sub>out</sub>	Voltage (V)	Dimension (mm)	Package	Datasheet
SYB002005-6	0.2	0.5	6	2	7	±0.6	1.4	1.4	5/-5	15*9.4*2	Q28-01H	N/A
SYB102002004-6	0.2	0.4	6	5	12	±0.8	1.5	1.5	5/-5	15*9.4*2	Q28-01H	N/A
SYB003005-6	0.3	0.5	6	2	8	±0.4	1.4	1.4	5/-5	15*9.4*2	Q28-01H	N/A
SYB004006-6	0.4	0.6	6	1.5	7	±0.4	1.4	1.4	5/-5	15*9.4*2	Q28-01H	N/A
SYB004005-6	0.4	0.4	6	1.5	7	±0.3	1.4	1.4	5/-5	15*9.4*2	Q28-01H	N/A
SYB008017-6	0.8	1.7	6	4	9	±0.8	1.5	1.5	5/-5	15*9.4*2	Q28-01H	N/A
SYB008017-6S	0.8	1.7	6	4	10	/	1.5	1.5	0/-5	15*9.4*2	JC28F002	N/A
SYB009015-6S	0.9	1.5	6	1.5	6	±0.4	1.4	1.4	0/-5	7.1*6*1.5	JC20F002	N/A
SYB009013-6S	0.9	1.3	6	1.5	5	±0.3	1.3	1.3	0/-5	7.1*6*1.5	JC20F002	N/A
SYB103009013-6-1	0.9	1.3	6	1	6	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB103009013-6	0.9	1.3	6	1.3	6.5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB009013-6-3	0.9	1.3	6	1	5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB009013-6-2	0.9	1.3	6	1	5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB009013-6-1	0.9	1.3	6	1	5.5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB010015-6-1	1	1.5	6	1.5	5.2	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB011017-6S	1.1	1.7	6	1.4	5.5	±0.4	1.4	1.4	0/-5	7.1*6*1.5	JC20F002	N/A
SYB103011017-6	1.1	1.7	6	1	5.5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB011017-6-2	1.1	1.7	6	1	5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB103012014-6	1.2	1.4	6	1	5.5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB012014-6-2	1.2	1.4	6	1	4.8	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB102012014-6	1.22	1.4	6	1	5.5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB014020-6	1.4	2	6	1	5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB016032-6S	1.6	3.2	6	3	10	/	1.8	1.5	0/-5	15*9.4*2	JC28F002	N/A
SYB016032-6	1.6	3.2	6	3	10	±0.5	1.4	1.4	5/-5	15*9.4*2	Q28-01H	N/A
SYB016019-6S	1.6	1.9	6	0.5	5	±0.2	1.3	1.3	0/-5	7.1*6*1.5	JC20F002	N/A
SYB017019-6-3	1.7	1.9	6	0.5	5	±0.2	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB017019-6-1	1.7	1.9	6	0.5	5	±0.2	1.3	1.3	5/-5	16*16.6*4.2	JF14F003	N/A
SYB103017019-6	1.7	1.9	6	0.8	5.5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB020040-6-2	2	4	6	2	14	±0.6	1.3	1.3	5/-5	16*16.6*4.2	JF14F003	N/A
SYB020040-6-1	2	4	6	2	10	±0.6	1.5	1.5	5/-5	16*16.6*4.2	JF14F003	N/A
SYB103020025-6	2	2.5	6	0.8	5.5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB020025-6	2	2.5	6	0.8	4.5	±0.3	1.3	1.3	5/-5	10*10*2	Q17-01H	N/A

# Phase Shifter

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Bit	Accuracy (°)	I.L. (dB)	ΔI.L. (dB)	VSWRin	VSWRout	Voltage (V)	Dimension (mm)	Package	Datasheet
SYB103027035-6	2.7	3.5	6	1	5.5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB027035-6-2	2.7	3.5	6	1	5	±0.3	1.3	1.3	5/-5	10*10*2	Q17-01H	N/A
SYB103027030-6	2.7	3	6	0.8	5.5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB027030-6-2	2.7	3	6	0.8	4.8	±0.3	1.3	1.3	5/-5	10*10*2	CQFP17	N/A
SYB103031034-6	3.1	3.4	6	0.8	5.5	±0.3	1.3	1.3	5/-5	15*9.4*2	Q28-01H	N/A
SYB031034-6-2	3.1	3.4	6	0.8	4.8	±0.3	1.3	1.3	5/-5	10*10*2	Q17-01H	N/A
SYB050060-6	5	6	6	1	6	±0.3	1.4	1.4	5/-5	18*18*6.5	JW15F001	N/A
SYB079090-6-1	7.9	9	6	1.5	7	±0.3	1.3	1.3	0/-5	18*18*6.5	JW15F001	N/A
SYB079090-6-2	7.9	9	6	1.5	7	±0.3	1.3	1.3	5/-5	18*18*6.5	JW15F001	N/A
SYB080120-6-2	8	12	6	1.5	8	±0.5	1.5	1.5	5/-5	18*18*6.5	JW15F001	N/A
SYB080090-6S	8	9	6	3	8	/	1.7	1.7	TTL	5*5*1.5	JC32F002	N/A
SYB150175-6-2	15	17.5	6	1	8	±0.4	1.5	1.5	0/-5	18*18*6.5	JW15F001	N/A

# Power Divider

Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	I.L. (dB)	Isolation (dB)	VSWRin	VSWRout	Dimension (mm)	Package	Datasheet
SGB7029H	1:03	2	12	2	13	2	1.8	5.08*5.08*1.25	JC32F005	N/A
SGB7028H	1:02	2.4	12	1.7	15	2	1.8	5.08*5.08*1.25	JC32F005	N/A

# Time Delayer

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Bit	Accuracy	I.L. (dB)	$\Delta$ I.L. (dB)	VSWRin	VSWRout	Driving Voltage (V)	Dimension (mm)	Package	Datasheet
SDBQ003020-6	0.3	2	6	$\pm 15$ ps	10	$\pm 0.4$	1.5	1.5	-5/0	7.2*7.2*1.3	JC48F007	N/A
SDB003020-6	0.3	2	6	$\pm 15$ ps	12	$\pm 0.4$	1.7	1.7	-5/0	7.2*7.2*1.3	JC48F007	N/A
SDB047057-9	4.7	5.7	9	$\pm 30$ ps	11	$\pm 0.3$	1.5	1.5	$\pm 5$ /TTL	16*16.6*4.2	JW14F003	N/A

Part Number	Interface	Low Freq. (GHz)	High Freq. (GHz)	Bit	Step (°)	I.L. (dB)	VSWR <sub>In</sub>	VSWR <sub>Rout</sub>	Attenuation Accuracy	Dimension (mm)	Package	Datasheet
SSBDA000022S-4	Parallel	0	2.2	6	0.5	1.5	1.3	1.3	±(0.3+5%Ai)	4*4*1.4	JC20F003	N/A
SSBDA000040S	Parallel	0	4	6	0.5	1.8	1.3	1.3	±(0.3+4%Ai)	5.08*5.08*1.25	JC12F003	N/A
SSBDA000040S-1	Parallel	0	4	5	0.25	1.3	1.4	1.4	±(0.2+4%Ai)	4*4*1.4	JC20F003	N/A
SSBDA000022S-1	Serial or Parallel	0	2.2	6	0.5	1.7	1.3	1.3	±(0.15+5%Ai)	4*4*1.4	JC20F003	N/A
SSBDA000022S	Serial or Parallel	0	2.2	6	0.5	1.7	1.3	1.3	±(0.15+5%Ai)	4*4*1.4	JC20F003	N/A
SSBDA000022S-2	Parallel	0	2.2	6	0.5	1.7	1.3	1.3	±(0.15+5%Ai)	4*4*1.4	JC20F003	N/A
SSBDA000020S-2	Parallel	0	2	6	0.25	1.3	1.3	1.3	±(0.2+5%Ai)	4*4*1.4	JC20F003	N/A
SSBDA000020S	Serial or Parallel	0	2	6	0.25	1.3	1.3	1.3	±(0.2+5%Ai)	4*4*1.4	JC20F003	N/A
SSBDA000020S-1	Serial or Parallel	0	2	6	0.25	1.3	1.3	1.3	±(0.2+5%Ai)	4*4*1.4	JC20F003	N/A
SSB000040-6	Parallel	0	4	6	1	4.5	1.3	1.3	±(0.3+4%Ai)	15*9.4*2	Q28-01H	N/A
SSB000040-5	Parallel	0	4	5	0.5	2.2	1.3	1.3	±(0.3+5%Ai)	10*10*2	Q17-01H	N/A
SSBDA000040XS-1	Parallel	0	4	4	3	4.5	1.3	1.3	±(0.3+4%Ai)	10*10*2	Q17-01H	N/A
SSBDA000040XS	Parallel	0	4	4	2	2.7	1.3	1.3	±(0.2+4%Ai)	10*10*2	Q17-01H	N/A
SSBDA000040S-03	Parallel	0	4	3	0.2	0.5	1.4	1.4	±(0.1+5%Ai)	5*5*1.5	JC32F002	N/A
SSBDA000040S-01	Parallel	0	4	1	/	1.6	1.3	1.3	±1	5*5*1.5	JC32F002	N/A
SSBDA000025S	Parallel	0	2.5	6	0.5	2.6	1.3	1.3	±(0.3+3%Ai)	5.08*5.08*1.25	JC12F003	N/A
SSB000025-6	Parallel	0	2.5	6	0.5	2.6	1.3	1.3	±(0.3+3%Ai)	10*10*2	Q17-01H	N/A
SSB000025-5	Parallel	0	2.5	5	1	2.6	1.3	1.3	±(0.3+5%Ai)	10*10*2	Q17-01H	N/A
SSBDA006007D-1	Parallel	0.62	0.67	1	64	2.3	1.3	1.3	±(0.3+5%Ai)	21*20.6*6.5	JW10F003	N/A
SSBDA006007D	Parallel	0.62	0.67	6	1	2.8	1.3	1.3	±(0.3+5%Ai)	21*20.6*6.5	JW10F003	N/A
SSBDA008030X	Parallel	0.8	3	6	0.5	3	1.5	1.5	±(0.3+6%Ai)	10*10*2	Q17-01H	N/A
SSB012014-6	Parallel	1.2	1.4	6	0.5	2.2	1.3	1.3	±(0.2+5%Ai)	10*10*2	Q17-01H	N/A
SSB020040-6	Parallel	2	4	6	0.5	3	1.3	1.3	±(0.2+4%Ai)	10*10*2	Q17-01H	N/A
SSB020040-6-1M	Parallel	2	4	6	0.5	2.5	1.3	1.3	±(0.3+6%Ai)	10*10*2	Q17-01H	N/A
SSB020040-6-1	Parallel	2	4	6	0.5	2.5	1.3	1.3	±(0.3+6%Ai)	10*10*2	Q17-01H	N/A
SSB103027035-4	Parallel	2.7	3.5	4	0.3	1.6/1.3	1.3	1.3	±0.2	10*10*2	Q16-01HA	N/A
SSB7016H	Parallel	2.7	3	4	0.3	1.6/1.2	1.3	1.3	±0.2	10*10*2	Q16-01HA	N/A
SSB031034-6L	Parallel	3.1	3.4	6	0.25	2.5	1.3	1.3	±(0.3+3%Ai)	10*10*2	Q17-01H	N/A
SSB7021H	Parallel	3.1	3.4	3	0.8	1	1.3	1.3	±0.2	10*10*2	Q16-01HA	N/A
SSBDA031034-4LS	Parallel	3.1	3.4	4	0.5/0.4/0.8/1.5	1.1	1.2	1.2	±0.2	10*10*2	Q17-01H	N/A
SSB7020H	Parallel	3.1	3.4	2	0.5	1	1.2	1.2	±0.2	10*10*2	Q16-01HA	N/A
SSBDA050060-6-1	Parallel	5	6	6	0.5	3.5	1.4	1.4	±(0.2+5%Ai)	18*18*6.5	JW15F001	N/A

# Digital Attenuator

Part Number	Interface	Low Freq. (GHz)	High Freq. (GHz)	Bit	Step (°)	I.L. (dB)	VSWR <sub>In</sub>	VSWR <sub>Out</sub>	Attenuation Accuracy	Dimension (mm)	Package	Datasheet
SSB050060-6D	Parallel	5	6	6	1	4.4	1.3	1.3	±(0.4+5%Ai)	21*20.6*6.5	JW10F003	N/A
SSBDA080120S	Parallel	8	12	6	0.5	4.5	2	2	±(0.3+5%Ai)	5.08*5.08*1.25	JC32F005	N/A
SSBDA080120-6	Parallel	8	12	6	0.5	3.7	1.3	1.3	±(0.3+5%Ai)	18*18*6.5	JW15F001	N/A
SSBDA080120XP	Parallel	8	12	4	3	4	1.4	1.4	±(0.3+5%Ai)	18*18*6.5	JW15F001	N/A
SSBDA080120LP	Parallel	8	12	6	0.25	3	1.3	1.3	±(0.3+5%Ai)	18*18*6.5	JW15F001	N/A
SSBDA080120-6-1	Parallel	8	12	6	0.5	4	1.4	1.4	±(0.3+5%Ai)	18*18*6.5	JW15F001	N/A
SSB080120-6D	Parallel	8	12	6	1	5.5	1.4	1.4	±(0.3+5%Ai)	21*20.6*6.5	JW10F003	N/A

# GaN Switch

www.sainty-tech.com

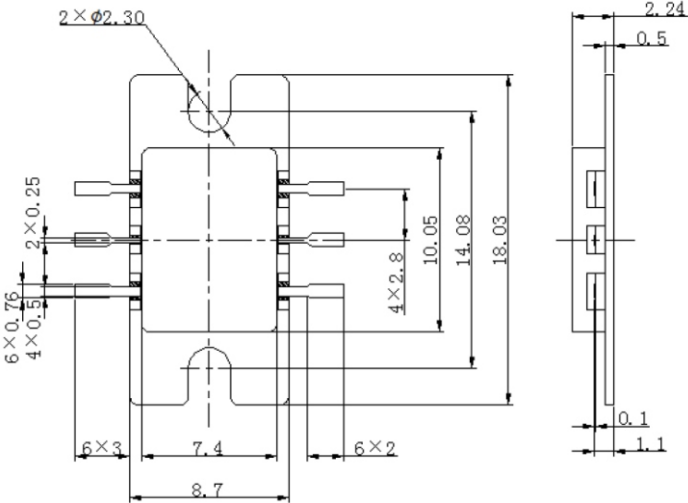
Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	I.L. (dB)	Isolation (dB)	VSWR <sub>in</sub>	VSWR <sub>out</sub>	Switch Time (ns)	Control	Dimension (mm)	Package	Datasheet
SKHN102012014	SPDT	1.2	1.4	0.4	35	1.35	1.35	50	TTL	5*5	CQFN	N/A

Part Number	Low Freq. (GHz)	High Freq. (GHz)	I.L. (dB)	Attenuation (dB)	VSWR <sub>in</sub>	VSWR <sub>out</sub>	Voltage (V)	Dimension (mm)	Package	Datasheet
SSBA000080X	0	8	2.5	0~32	1.6	1.6	0 ~ -3V	5.08*5.08*1.25	JC32F005	N/A

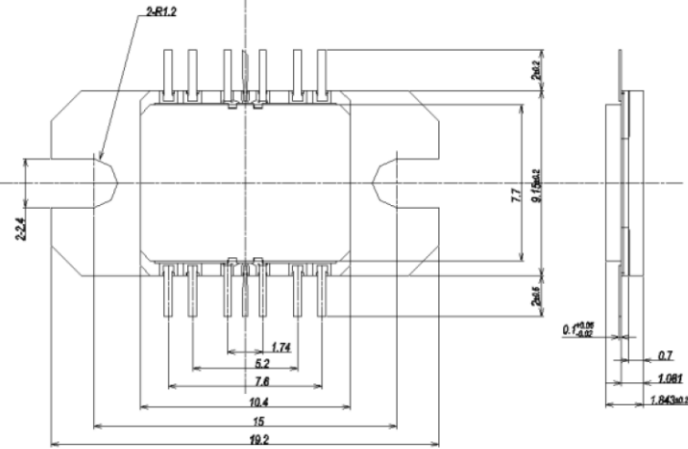


# GaN Large Signal Module Packages

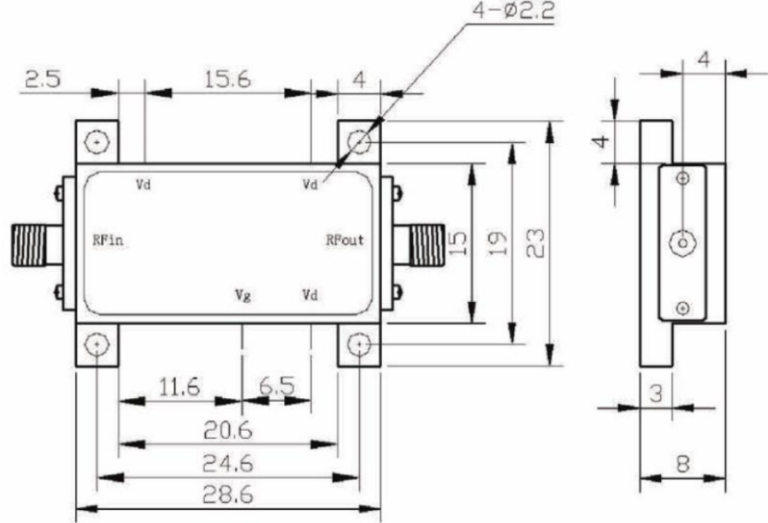
## 1.JF06F007



## 2.JF14F001

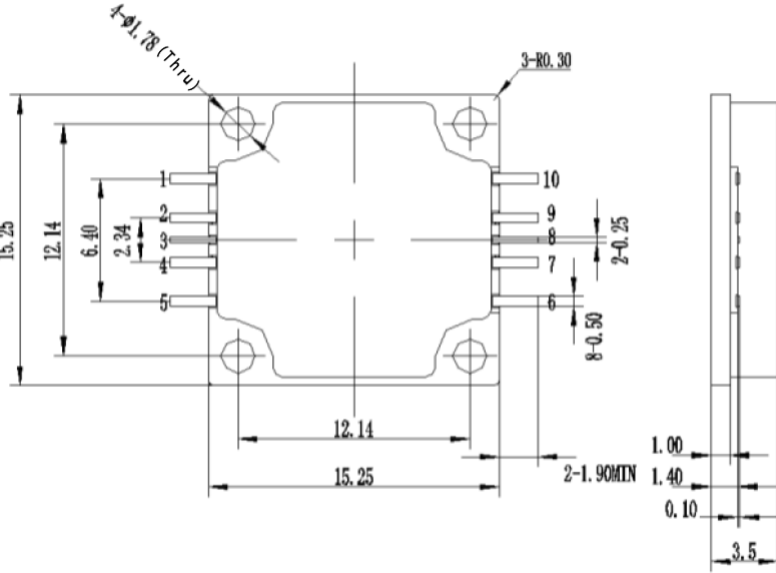


## 3.SMA-1

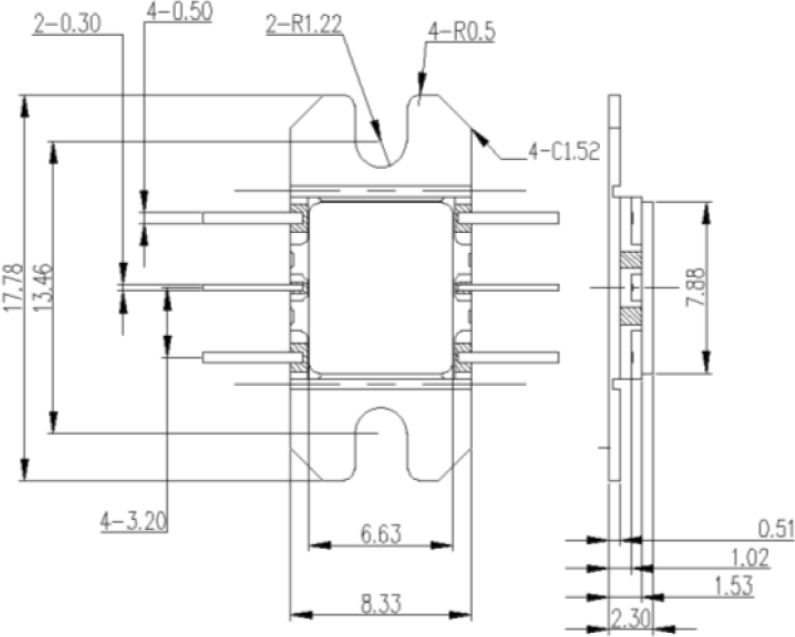


# GaN Large Signal Module Packages

## 4. JF10F001



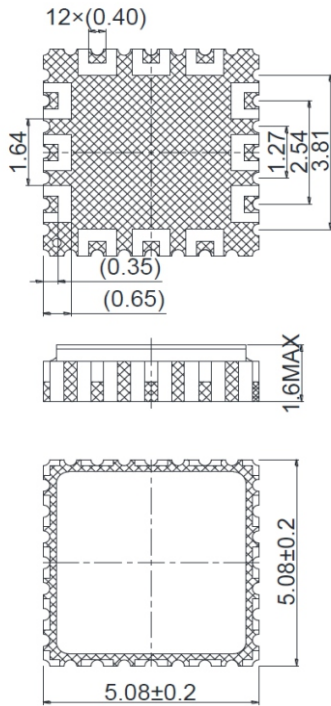
## 5. JY06F001



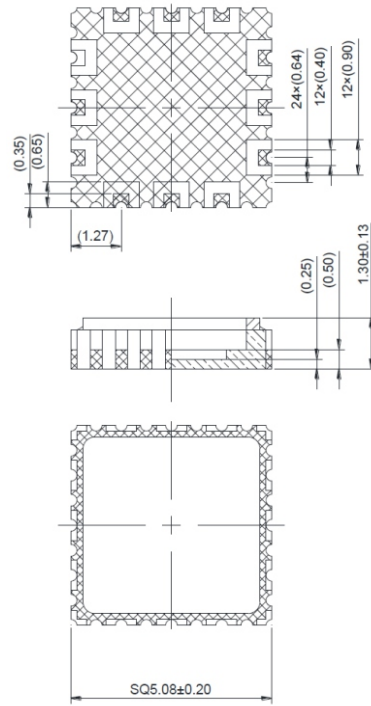
Note: JY06F001 is only used to package GaAs chips.

# GaAs Small Signal Module Packages

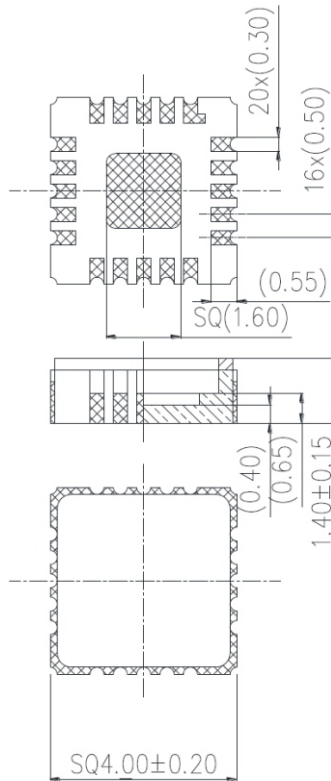
JC12F003



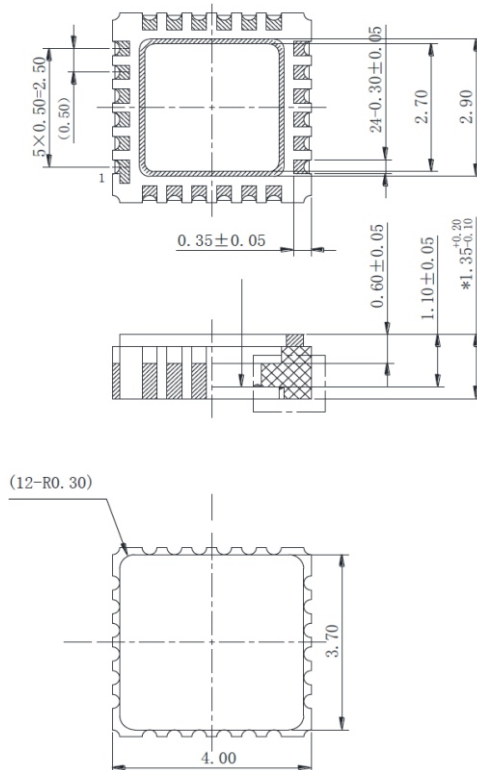
JC32F005



JC20F003

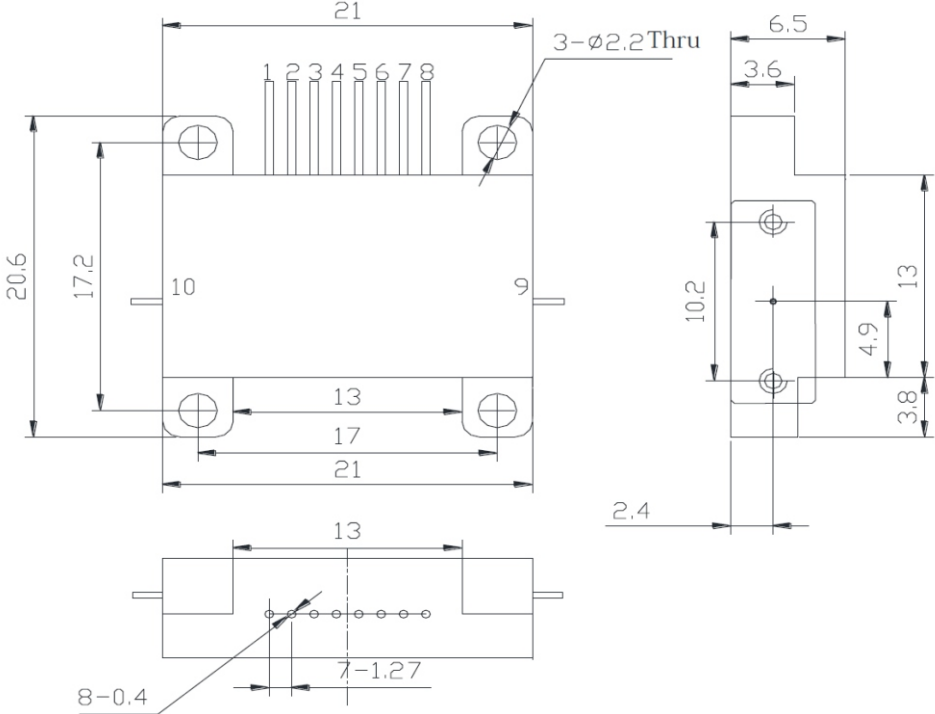


JC24F010

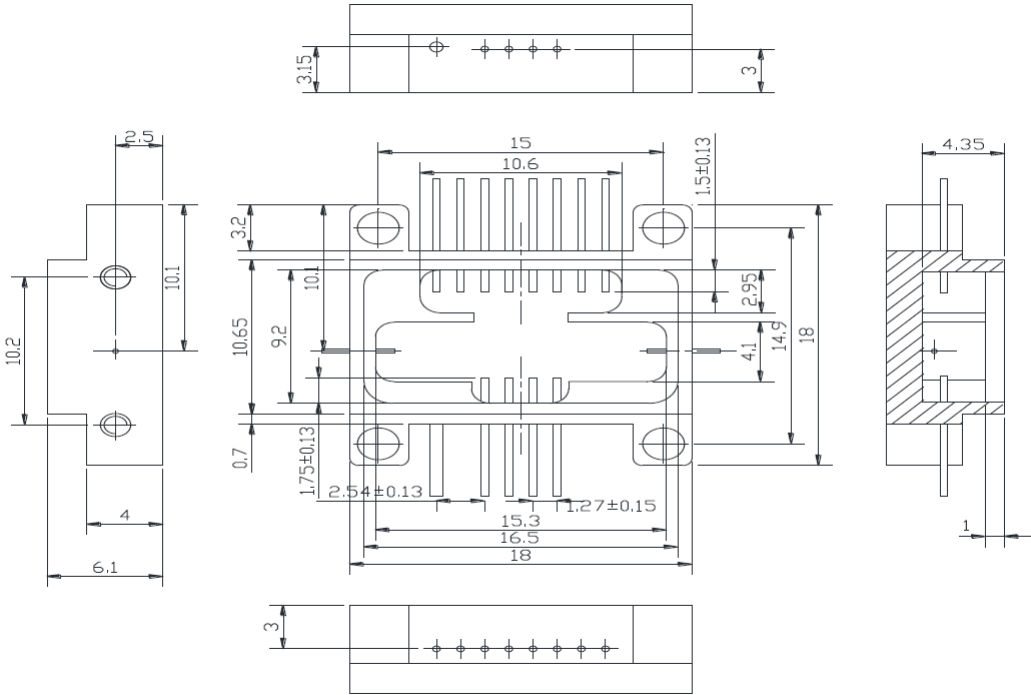


# GaAs Small Signal Module Packages

JW10F003

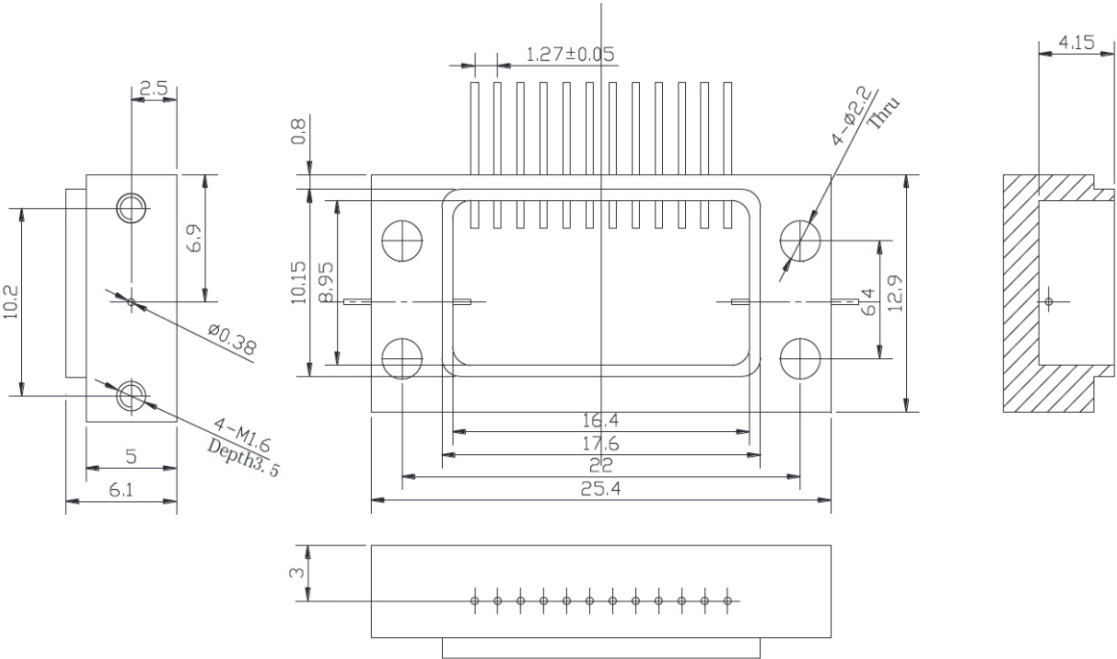


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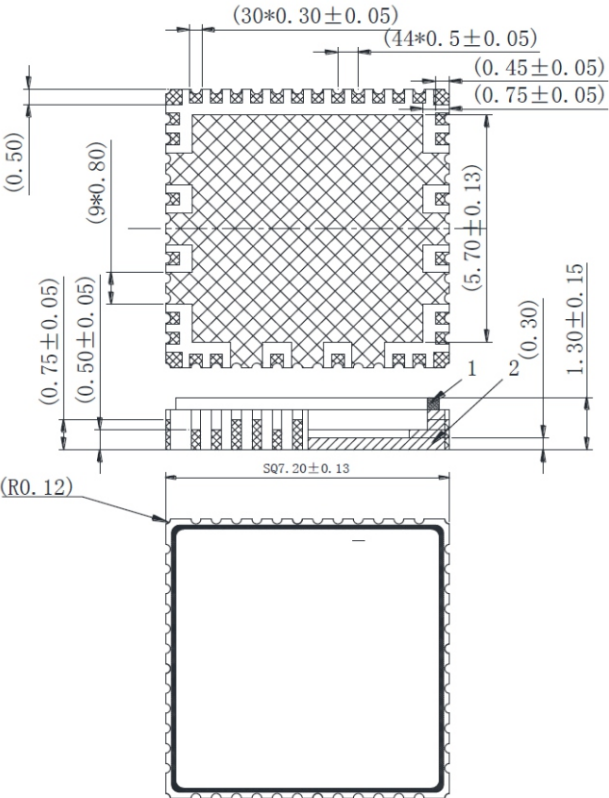


# GaAs Small Signal Module Packages

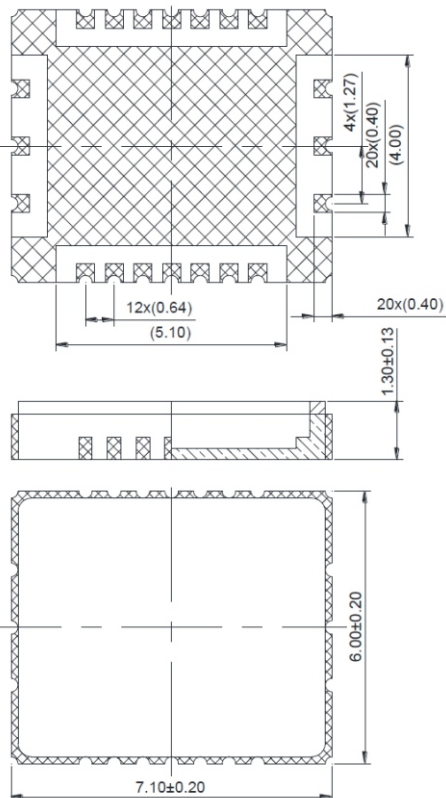
JW14F003



JC48F007

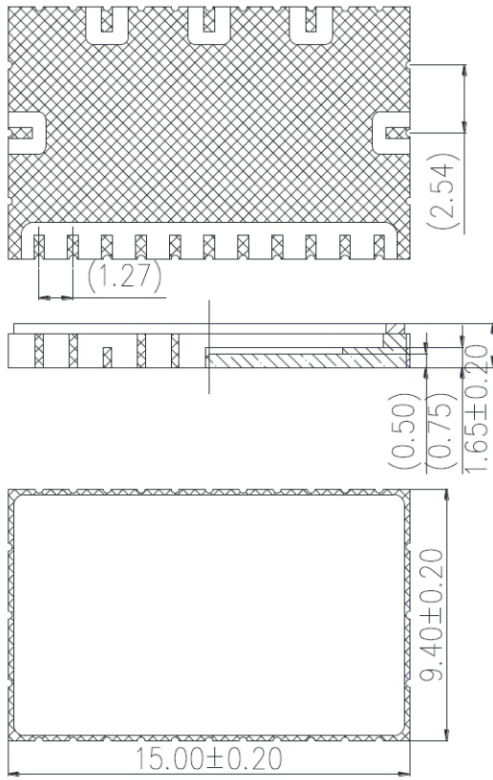


JC20F002

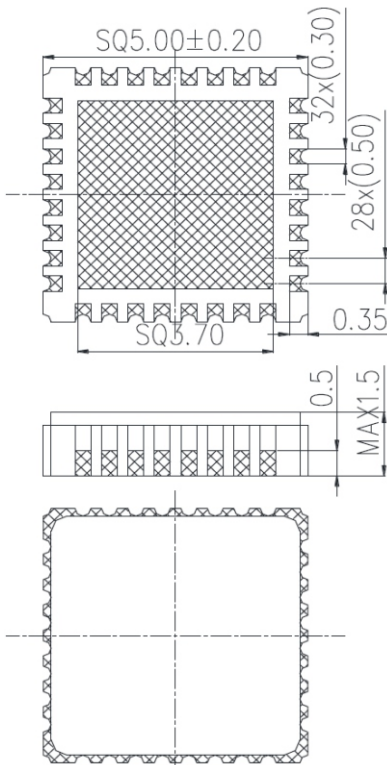


# GaAs Small Signal Module Packages

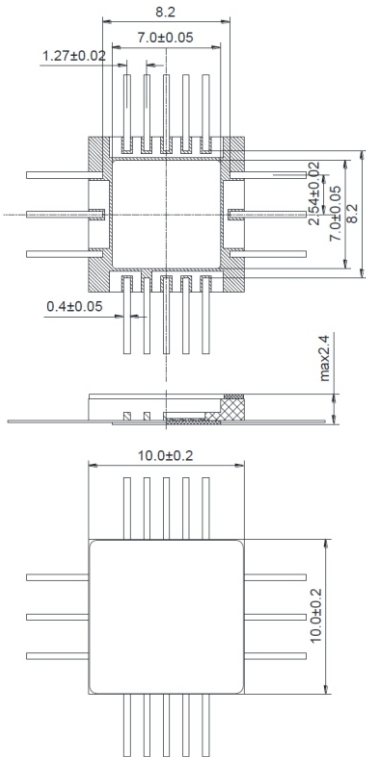
JC28F002



JC32F002

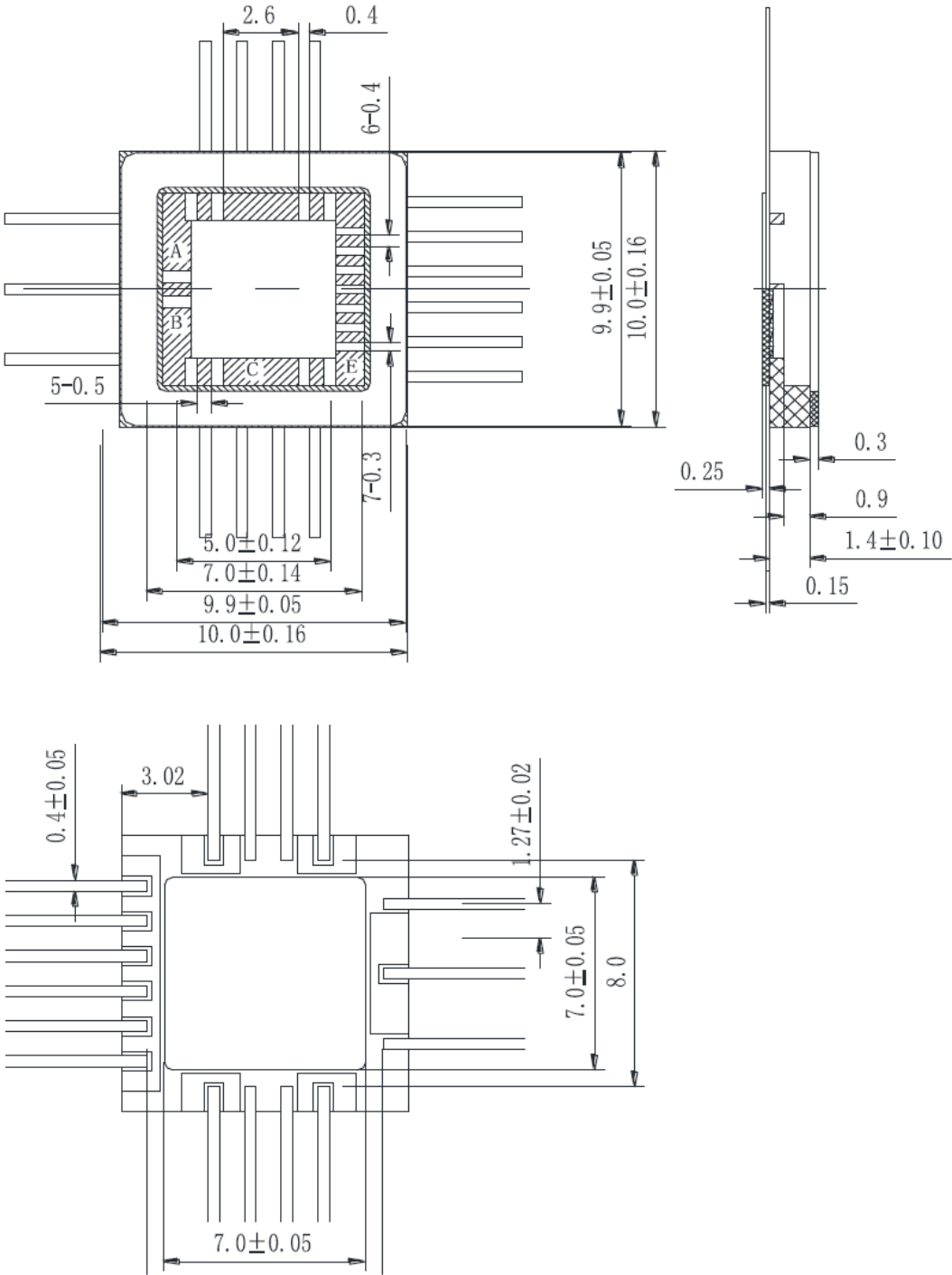


Q16-01HA



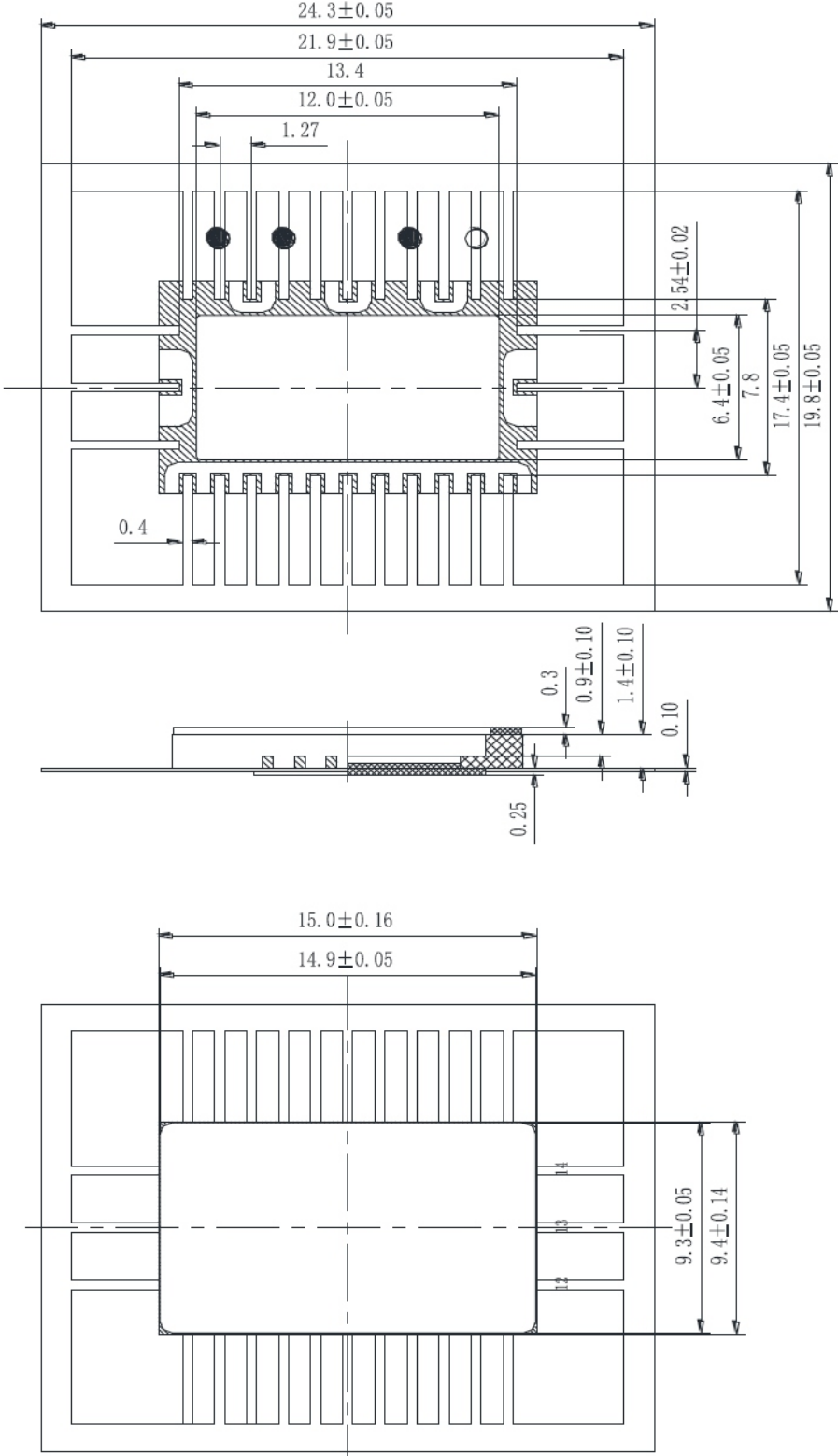
# GaAs Small Signal Module Packages

Q17-01H



# GaAs Small Signal Module Packages

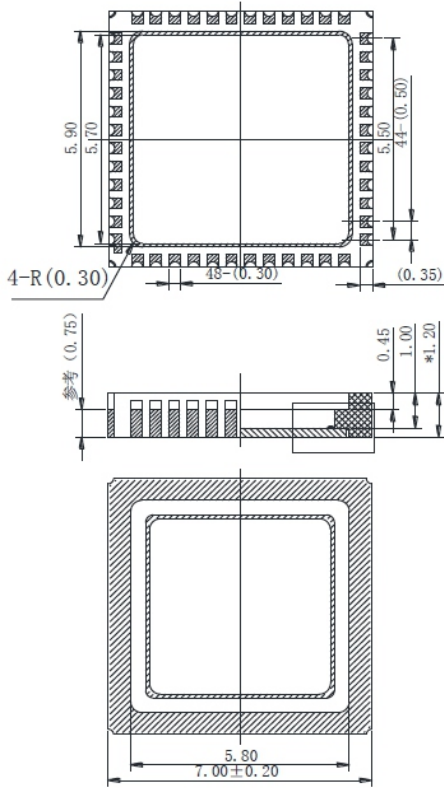
Q28-01H



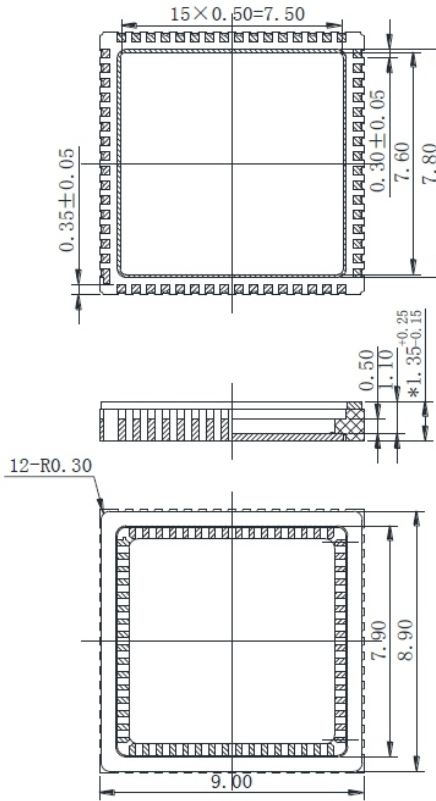


# GaAs Small Signal Module Packages

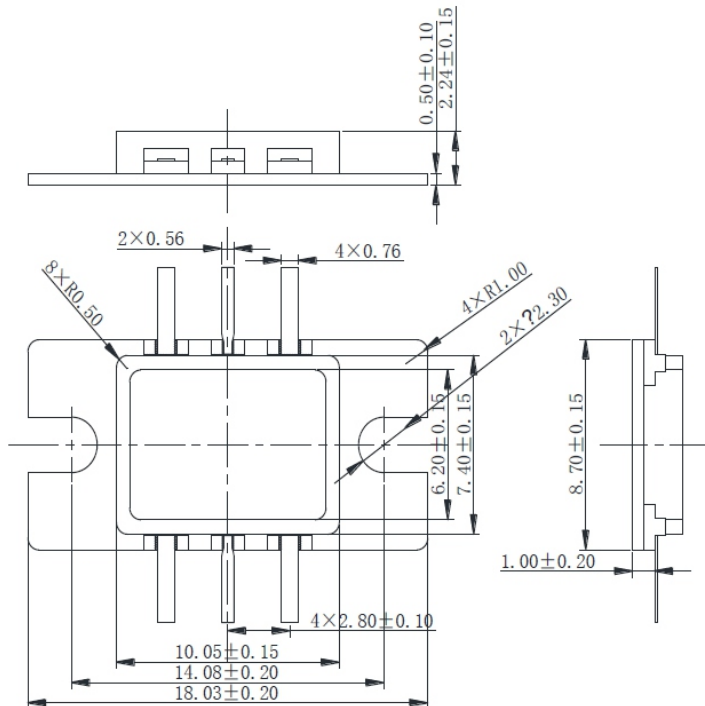
JC48F006



JC64F001

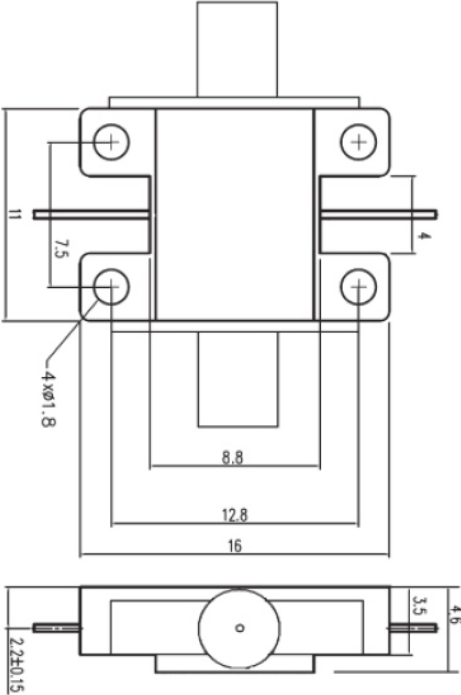


JF06F007

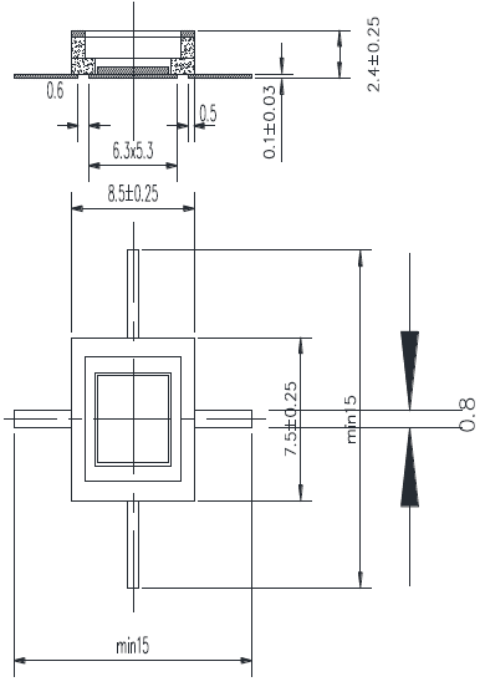


# GaAs Small Signal Module Packages

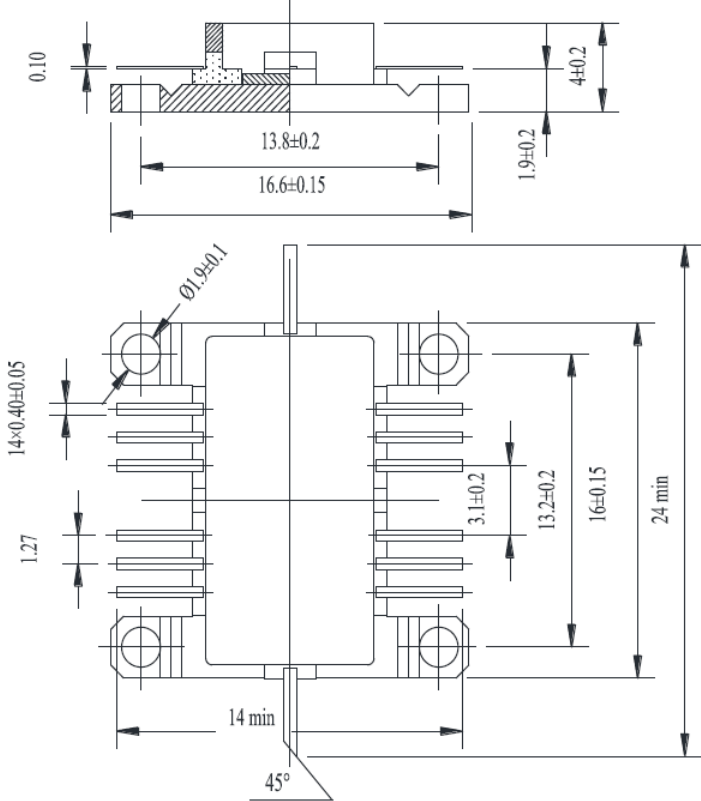
JW04F016



JF04F17

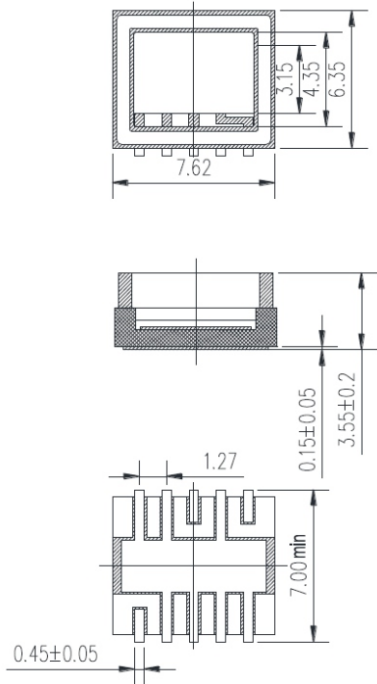


JF14F003

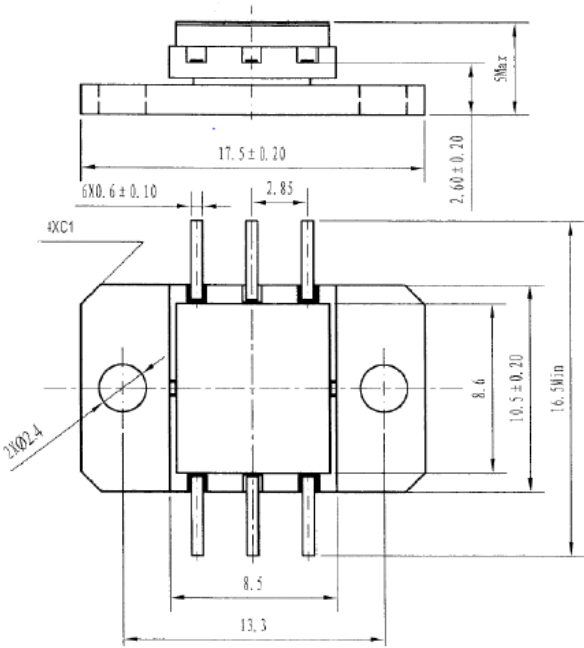


# GaAs Small Signal Module Packages

CSOP10-1



JF06F003








Unit: mm



## CONTACT US

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