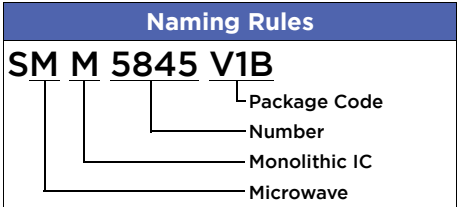


Power Amplifier MMICs (Packages)

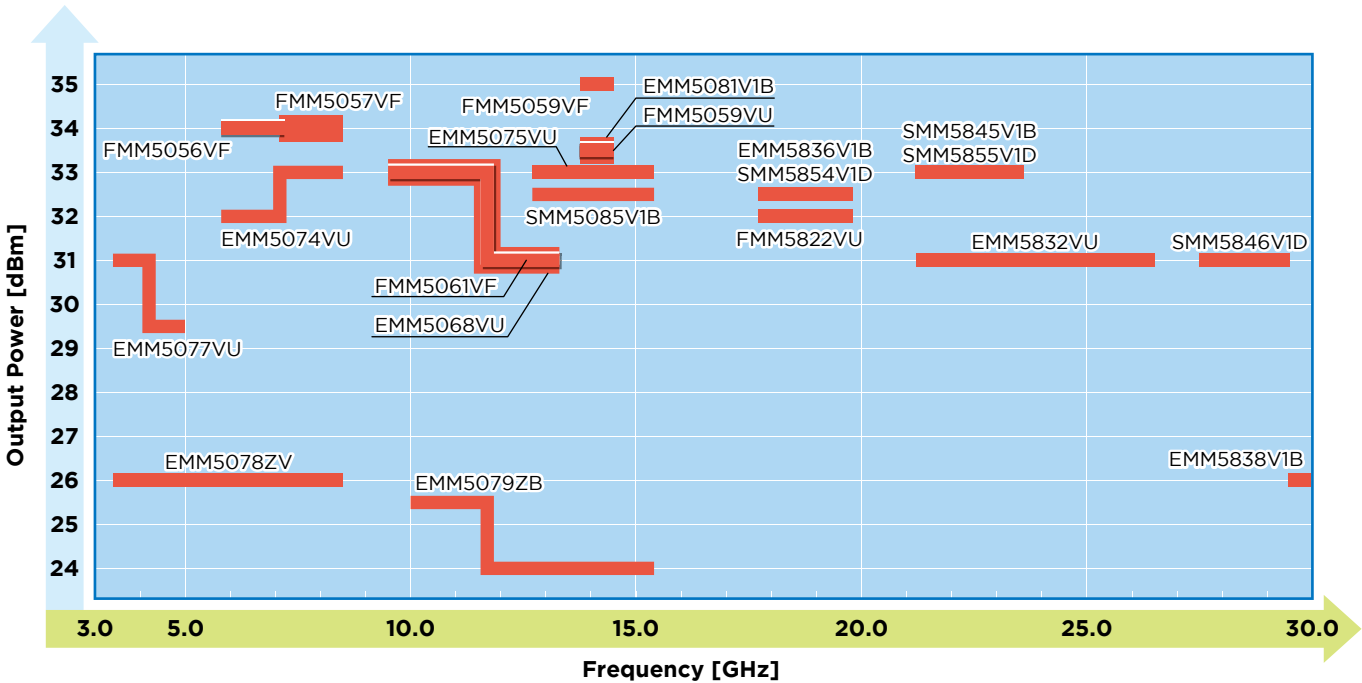
Sumitomo Electric provides GaAs power amplifier MMICs mounted in a suitable high frequency package with output power 50mW - 2W at frequencies ranging from C-band to Ka-band. Sumitomo Electric provides various types of packages including highly reliable hermetically sealed types, low cost surface mount types and very low cost QFN types. These MMICs can be packaged to meet the customer's cost/performance requirements.

Features

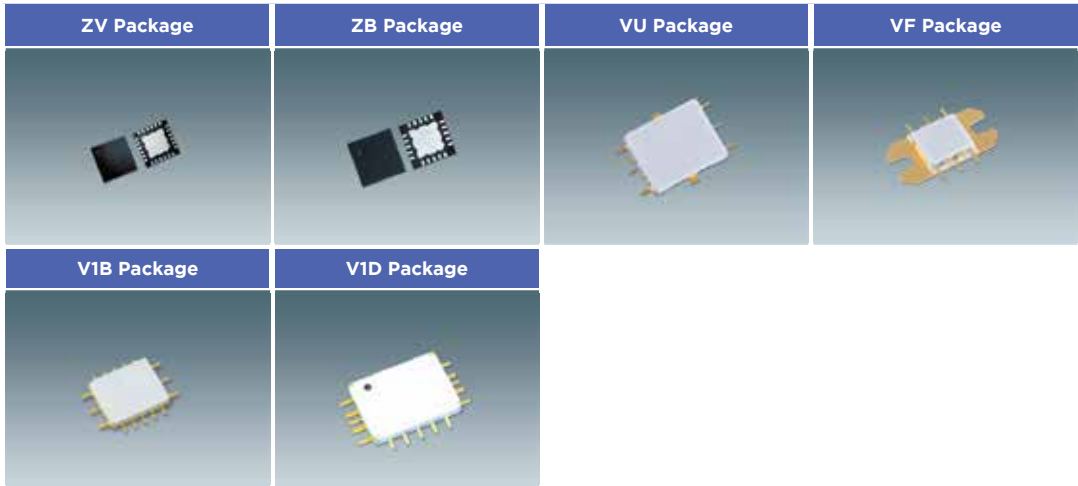
- Input and Output Internally Matched $Z_{in}/Z_{out} = 50\Omega$
- High Output Power (Up to 2W)
- High Gain
- Low Distortion
- Small Hermetically Sealed Package (V1B/V1D/VU/VF)
- Low Cost Surface Mount Package (ZV/ZB/V1B/V1D/VU)



Power Amplifier MMIC Lineup (Package)



Product Photo



Specifications

Part Number	Freq. (GHz)	P1dB (dBm)	G1dB (dBm)	OIP3 (dBm)	VDD (V)	IDD (DC) (mA)	IDD (P1dB)	Package	Function/Application
EMM5077VU	3.4-5.0	31 (f=3.4-4.2GHz) 29.5 (f=4.2-5.0GHz)	25	39.5 (f=3.4-4.2GHz) 38 (f=4.2-5.0GHz)	6	1100	1200 (f=3.4-4.2GHz)	VU	Power Amp.Radio Link
EMM5078ZV	3.4-8.5	26	29	35	6	300	350	ZV	Driver Amp.,LO Buffer Amp.C-Band VSAT and Radio Link
FMM5056VF	5.8-7.2	34	28	-	10	1100	1100	VF	Power Amp.C-Band VSAT and Radio Link
EMM5074VU	5.8-8.5	32 (f=5.8-7.1GHz) 33 (f=7.1-8.5GHz)	26	41	6	1200	1400 (f=5.8-7.1GHz)	VU	
FMM5057VF	7.1-8.5	34	26	-	10	1100	1100	VF	Power Amp.Radio Link
EMM5068VU	9.5-13.3	33 (f=9.5-11.7GHz) 31 (f=11.7-13.3GHz)	25 (f=9.5-11.7GHz) 23 (f=11.7-13.3GHz)	40	6	1300	1500 (f=9.5-11.7GHz)	VU	
FMM5061VF	9.5-13.3	33 (f=9.5-11.7GHz) 31 (f=11.7-13.3GHz)	26 (f=9.5-11.7GHz) 24 (f=11.7-13.3GHz)	41.5	6	-	1700 (f=9.5-11.7GHz)	VF	
EMM5079ZB	10-15.4	25.5 (f=10-11.7GHz) 24 (f=11.7-15.4GHz)	22	31 (f=10-11.7GHz) 35 (f=11.7-15.4GHz)	6	350	380	ZB	Driver Amp.,LO Buffer Amp.Ku-Band VSAT and Radio Link
EMM5075VU	12.7-15.4	33	25	42	6	1200	1500	VU	Power Amp.Ku-Band VSAT and Radio Link
SMM5085V1B	12.7-15.4	32.5	24	42	6	1200	1500	V1B	
EMM5081V1B	13.75-14.5	33.5	29	39.5	6	1200	1400	V1B	Power Amp.Ku-Band VSAT
FMM5059VF	13.75-14.5	35	28	40	7	1300	1600	VF	
FMM5059VU	13.75-14.5	33.5	29	39.5	6	1200	1400	VU	
EMM5836V1B	17.7-19.7	32.5	26	40	6	1400	1800	V1B	Power Amp.Radio Link
FMM5822VU	17.7-19.7	32	21	38.5	6	850	1100	VU	
SMM5854V1D	17.7-19.7	32.5	26	40	6	1400	1800	V1D	
SMM5845V1B	21.2-23.6	33	21	41	6	1400	1800	V1B	
SMM5855V1D	21.2-23.6	33	24	41	6	1400	1800	V1D	
EMM5832VU	21.2-26.5	31	19	36.5	6	800	1000	VU	
SMM5846V1D	27.5-29.5	31	19	39	6	1100	1450	V1D	
EMM5838V1B	29.5-30.0	26	24	-	6	220	280	V1B	Power Amp.Ka-Band VSAT

G.C.P.: Gain Compression Point

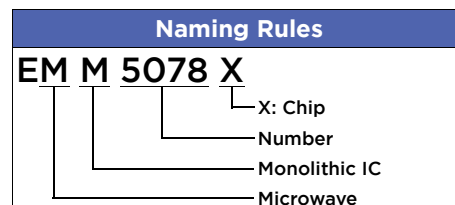
Note: Tc=+25°C

Power Amplifier MMICs (Die)

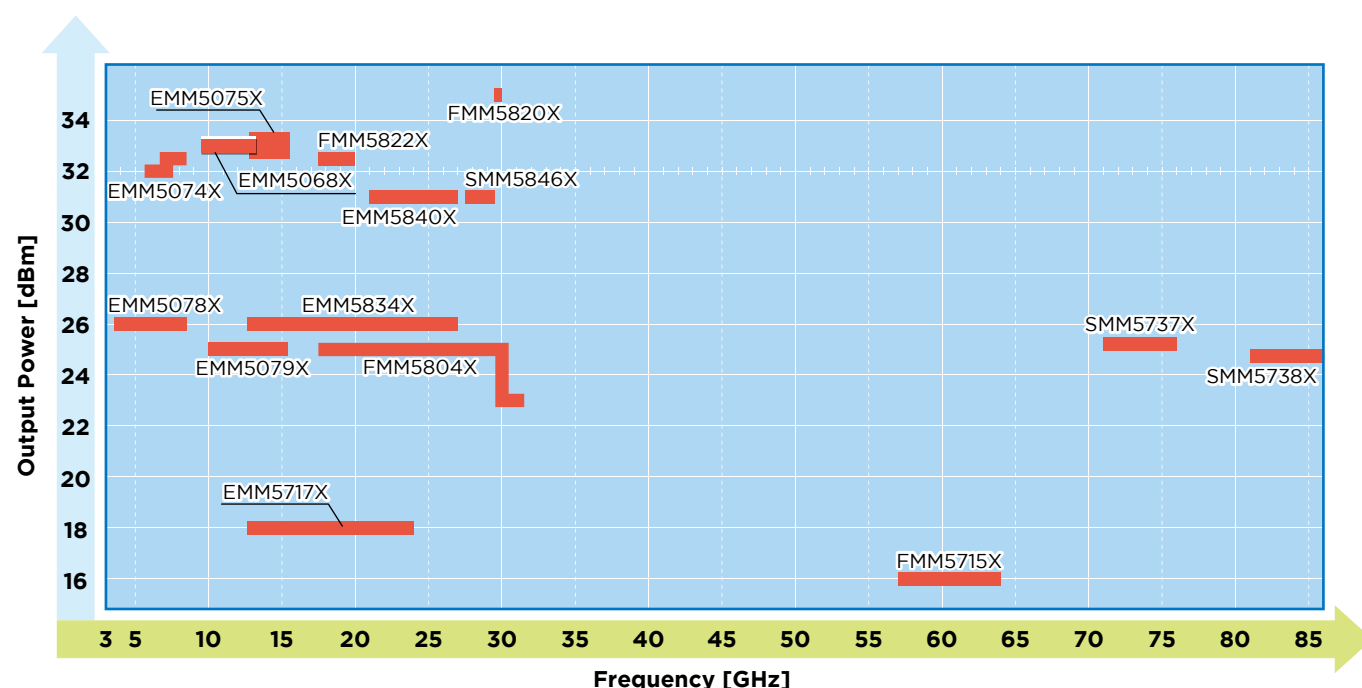
Sumitomo Electric is providing a full line-up of GaAs power amplifier MMIC chips with output power at 50mW to 3W. These MMICs are designed for VSAT (Very Small Aperture Terminal) and radio link transmitter applications that require high power, high gain and low distortion in a 50Ω system. Sumitomo Electric has a full line-up of MMIC products specified from C-band through E-band.

Features

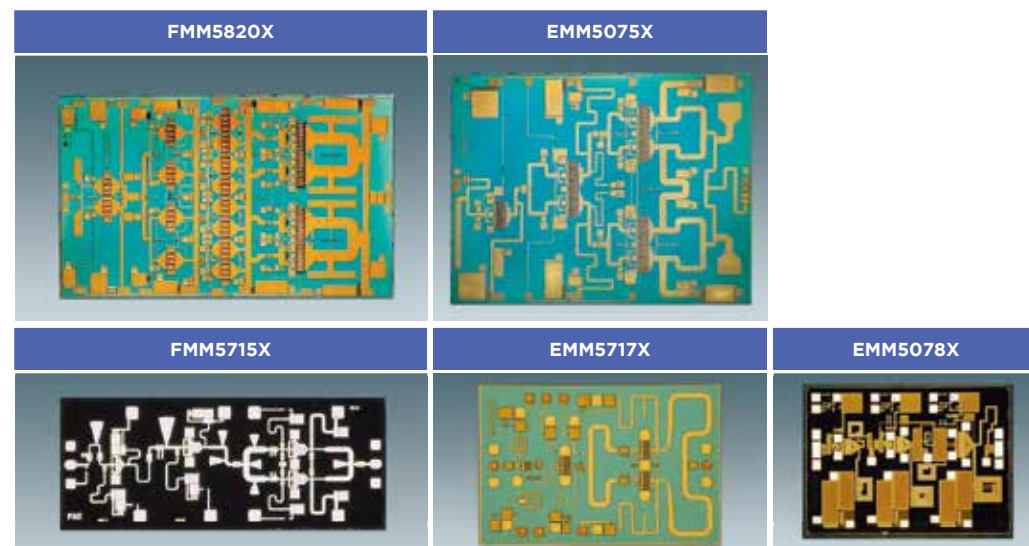
- Input and Output Internally Matched $Z_{in}/Z_{out} = 50\Omega$
- High Output Power (Up to 3W)
- High Gain
- Low Distortion
- High Reliability



Power Amplifier MMIC Lineup (Die)



Product Photo



Specifications

Part Number	Freq. (GHz)	P1dB (dBm)	G1dB (dBm)	OIP3 (dBm)	VDD (V)	IDD (DC) (mA)	IDD (P1dB) (mA)	Function/Application
EMM5078X	3.4-8.5	26	29	35	6	300	350	Driver Amp., LO Buffer Amp. C-Band VSAT and Radio Link
EMM5074X	5.8-8.5	32 (f=5.8-7.1GHz) 32.5 (f=7.1-8.5GHz)	27	41	6	1400	1450	Power Amp.C-Band VSAT and Radio Link
EMM5068X	9.5-13.3	33	25	42.5	6	1500	1500	Power Amp.Radio Link
EMM5079X	10-15.4	25	22.5	31 (f=10-11.7GHz) 35 (f=11.7-15.4GHz)	6	350	350	Driver Amp., LO Buffer Amp.Ku-Band VSAT and Radio Link
EMM5075X	12.7-15.4	33	26	43.5	6	1200	1300	Power Amp.Ku-Band VSAT and Radio Link
EMM5717X	12.7-24	18	22	-	3	-	180	Driver Amp., LO Buffer Amp.Ku-Band VSAT and Radio Link
EMM5834X	12.7-27	26	23	32.5	6	300	370	
FMM5822X	17.5-20	32.5	21	41	6	850	1000	Power Amp.Radio Link
FMM5804X	17.5-31.5	25 (f=17.5-30GHz) 23 (f=30-31.5GHz)	18	-	6	250	300	Driver Amp.Ka-Band VSAT and Radio Link
EMM5840X	21-27	31	24	39	6	800	1000	Power Amp.Radio Link
SMM5846X	27.5-29.5	31	19	39	6	1100	1450	
FMM5820X	29.5-30	35	23	-	7	1500	2200	Power Amp.Ka-Band VSAT and Radio Link
FMM5715X	57-64	16	17	-	3	150	150	Power Amp.Radio Link
SMM5737X	71-76	25.5	25	32	4	1300	1320	
SMM5738X	81-86	24.5	25	32	4	1300	1320	

G.C.P.: Gain Compression Point
Note: Ta=+25°C

Low Noise Amplifier MMICs (Die)

Sumitomo Electric provides GaAs Low Noise amplifier MMICs designed for VSAT and radio link receiver applications. The performance of low noise figure and high associated gain are achieved using pHEMT technology and EB lithography process. Sumitomo Electric has line-ups of MMIC products specified from Ku-band through V-band.

Features

- Input and Output Internally Matched Zin/Zout = 50Ω
- Low Noise Figure
- High Gain
- Wide Band
- High Reliability Bare Die (X)

Naming Rules

FM M 5701 X

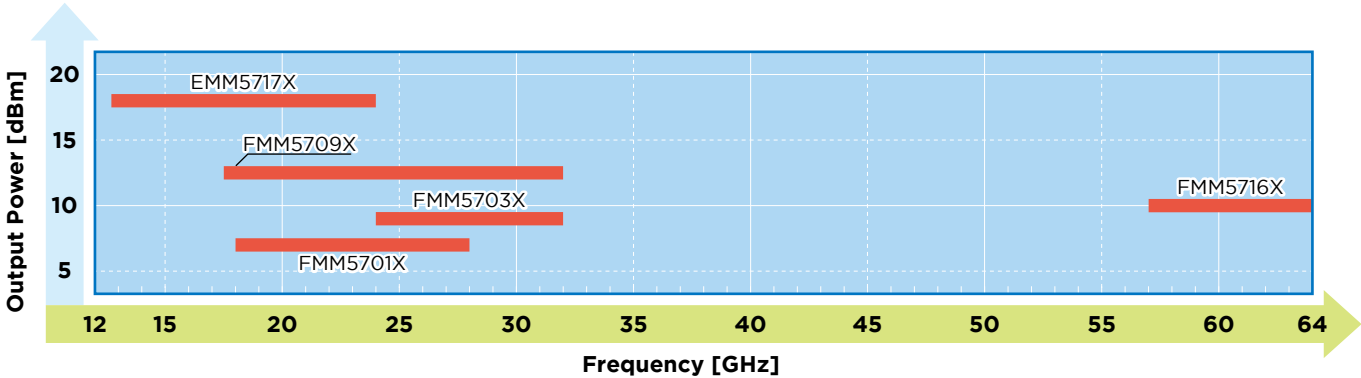
Package Code

Serial Number

Monolithic IC

Microwave

Low Noise Amplifier MMIC Lineup

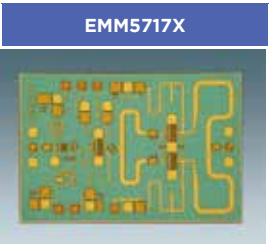


Specifications

Part Number	Freq. (GHz)	P1dB (dBm)	Gas (dB)	IIP3 (dBm)	NF (dB)	VDD(DC) (V)	IDD (DC) (mA)	IDD(RF) (mA)	Package	Application
EMM5717X	12.7-24	18	23	-	2.5	3	-	180	Die	VSAT and Radio Link
FMM5709X	17.5-32	12.5	23	-	2.5	3	-	60		
FMM5701X	18-28	7	13.5	-	1.5	5	12	12		
FMM5703X	24-32	9	18	-	2	3	20	20		
FMM5716X	57-64	10	22	-	5	3	30	30		

G.C.P.: Gain Compression Point
Note: Ta=+25°C

Product Photo



Power GaAs

GaAs FETs (Die)

Features

- High Gain, High Frequency Chip

Naming Rules

FL X 25 7 XV

Chip Form: XV (Via Hole PHS)
: XP (non Via Hole PHS)

Number

Output Power

Frequency Band

Large Signal

Specifications

Part Number	P1dB (dBm)	G1dB (dB)	η_{add} (%)	Freq. (GHz)	VDS (V)	IDS (mA)	Application
FLC087XP	28.5	7	31.5	8.0	10	180	C-band Amplifier
FLC157XP	31.5	6	29.5	8.0	10	360	
FSX017X	21.5	11	42	8.0	8	38	X-band Amplifier
FSX027X	24.5	10	41	8.0	8	77	
FLX257XV	33.5	7.5	31	10.0	10	600	Ku-band Amplifier
FLK017XP	20.5	8	26	14.5	10	36	
FLK027XP	24	7	32	14.5	10	60	
FLK027XV	24	7	32	14.5	10	60	
FLK057XV	27	7	32	14.5	10	120	
FLK107XV	30	6.5	31	14.5	10	240	
FLK207XV	32.5	6	27	14.5	10	480	

X: Conventional Chip, XP: PHS (Plated Heat Sink), XV: Via Hole PHS

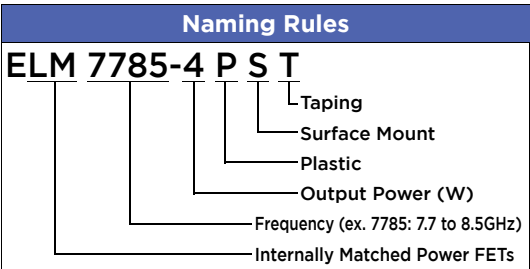
Internally Matched High Power GaAs FETs

FLM/ELM/SLM Series are internally matched power GaAs FETs developed for radio link applications which require high power, high gain, and low distortion in a 50Ω system that are available from 2GHz to 15.3GHz frequency bands.

PS-series are cost effective products of plastic package which can be surface-mounted to save assembly cost.
These products can be provided in both taping-reel and Tray.

Features: PS series

- Input/Output Internally Matched
- Plastic Package for SMT Applications (I2C)
- High Gain
- High Output Power
- High PAE
- Frequency Bands
(5.9 to 6.4GHz, 6.4 to 7.2GHz, 7.1 to 7.9GHz, 7.7 to 8.5GHz)

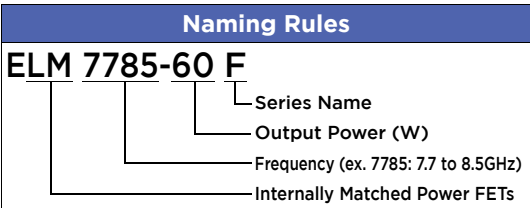


Product Photo

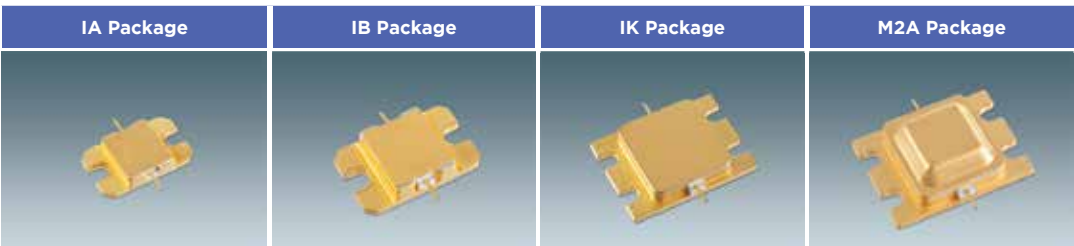


Features

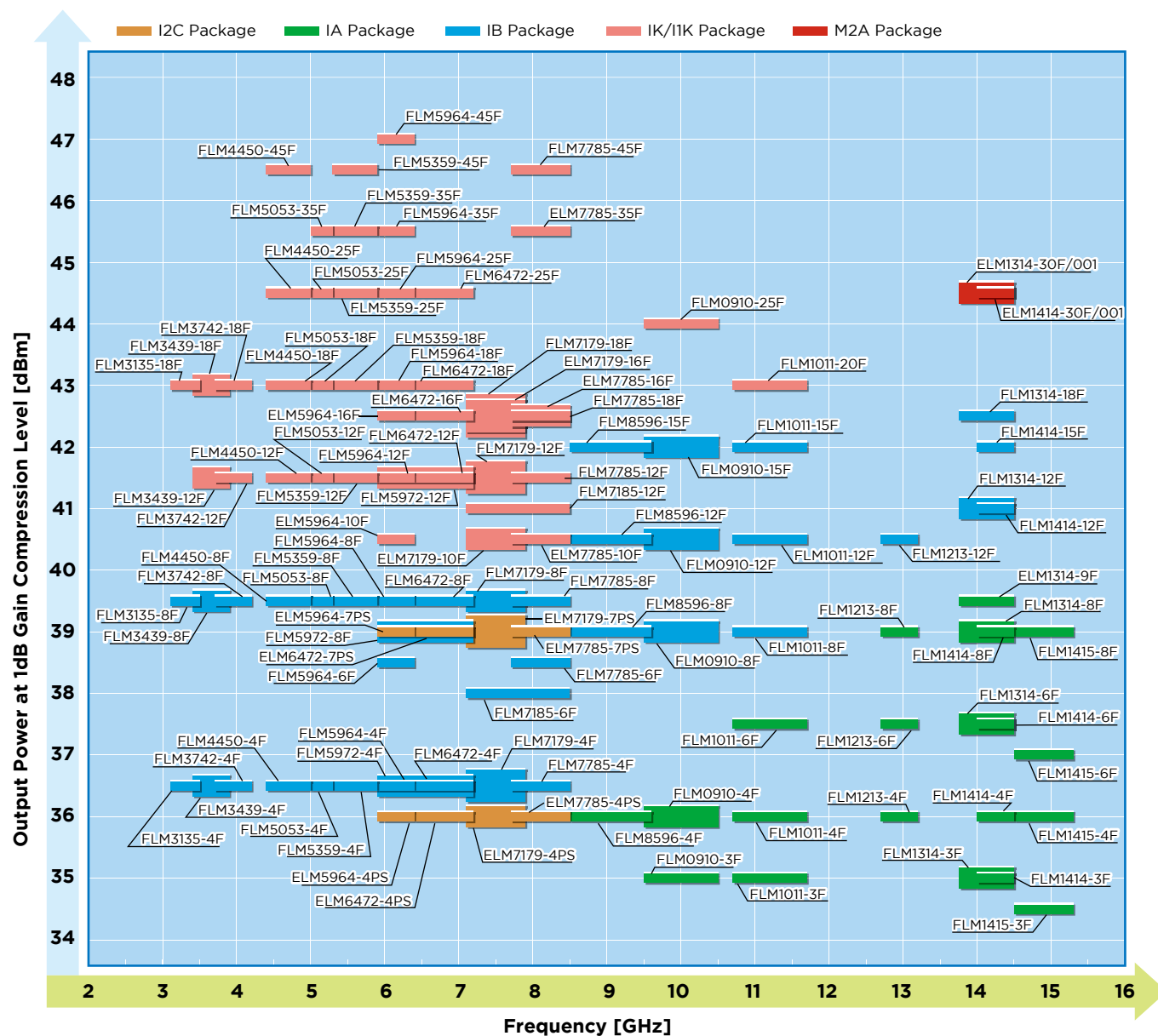
- Input/Output Internally Matched Zin/Zout = 50Ω
- Hermetic Metal Wall Package
- High Gain
- High Output Power (Up to 60W)
- Low Distortion
- Covers Wide Band



Product Photo



Internally Matched High Power GaAs FET Lineup



Specifications (PS series)

Part Number	Freq. (GHz)	IM3 (dBc)	SCL Pout (dBm)	P1dB (dBm)	G1dB (dB)	η_{add} (%)	VDS (V)	IDS (DC) (mA)	IDS(RF) (mA)	Rth (°C/W)	Package	Feature
ELM5964-4PS	5.9-6.4	-43	25.5	36	11.5	37	10	1100	1100	4.5	I2C	- Internally matched - Optimized for each frequency band
ELM5964-7PS	5.9-6.4	-45	28	39	11	36	10	2200	2200	2.5		
ELM6472-4PS	6.4-7.2	-43	25.5	36	11	36	10	1100	1100	4.5		
ELM6472-7PS	6.4-7.2	-43	28	39	10.5	35	10	2200	2200	2.5		
ELM7179-4PS	7.1-7.9	-43	25.5	36	10.5	35	10	1100	1100	4.5		
ELM7179-7PS	7.1-7.9	-43	28	39	10	34	10	2200	2200	2.5		
ELM7785-4PS	7.7-8.5	-43	25.5	36	10	34	10	1100	1100	4.5		
ELM7785-7PS	7.7-8.5	-43	28	39	9.5	33	10	2200	2200	2.5		

Note: Tc(op)=+25°C

Internally Matched High Power GaAs FETs

Specifications

Part Number	Freq. (GHz)	IM3 (dBc)	SCL Pout (dBm)	P1dB (dBm)	G1dB (dB)	η_{add} (%)	VDS (V)	IDS (DC) (mA)	IDS(RF) (mA)	Rth (°C/W)	Package	Feature
FLM3135-4F	3.1-3.5	-45	25.5	36.5	12	38	10	1100	1100	5	IB	• 50Ω internally matched • No external matching • Optimized for each frequency band
FLM3135-8F	3.1-3.5	-45	28.5	39.5	11	37	10	2200	2200	3	IB	
FLM3135-18F	3.1-3.5	-45	32	43	10.5	37	10	4800	4800	1.6	IK	
FLM3439-4F	3.4-3.9	-46	25.5	36.5	12	38	10	1100	1100	5	IB	
FLM3439-8F	3.4-3.9	-46	28.5	39.5	11	37	10	2200	2200	3	IB	
FLM3439-12F	3.4-3.9	-46	30.5	41.5	11.5	40	10	3250	3250	2.3	IK	
FLM3439-18F	3.4-3.9	-46	32	43	10.5	37	10	4800	4800	1.6	IK	
FLM3742-4F	3.7-4.2	-46	25.5	36.5	12	38	10	1100	1100	5	IB	
FLM3742-8F	3.7-4.2	-46	28.5	39.5	11	37	10	2200	2200	3	IB	
FLM3742-12F	3.7-4.2	-46	30.5	41.5	11.5	40	10	3250	3250	2.3	IK	
FLM3742-18F	3.7-4.2	-46	32	43	10.5	37	10	4800	4800	1.6	IK	
FLM4450-4F	4.4-5.0	-46	25.5	36.5	11	37	10	1100	1100	5	IB	
FLM4450-8F	4.4-5.0	-46	28.5	39.5	10	36	10	2200	2200	3	IB	
FLM4450-12F	4.4-5.0	-46	30.5	41.5	10.5	39	10	3250	3250	2.3	IK	
FLM4450-18F	4.4-5.0	-46	32	43	9.5	36	10	4800	4800	1.6	IK	
FLM4450-25F	4.4-5.0	-46	33.5	44.5	9.5	40	10	6200	6200	1.4	IK	
FLM4450-45F	4.4-5.0	-	-	46.5	10	41	12	7000	8000	1.1	IK	
FLM5053-4F	5.0-5.3	-46	25.5	36.5	10.5	37	10	1100	1100	5	IB	
FLM5053-8F	5.0-5.3	-46	28.5	39.5	9.5	36	10	2200	2200	3	IB	
FLM5053-12F	5.0-5.3	-46	30.5	41.5	9.5	38	10	3250	3250	2.3	IK	
FLM5053-18F	5.0-5.3	-46	32	43	8.5	35	10	4800	4800	1.6	IK	
FLM5053-25F	5.0-5.3	-46	33.5	44.5	8.5	39	10	6200	6200	1.4	IK	
FLM5053-35F	5.0-5.3	-45	34.5	45.5	8	35	10	8000	8000	1.1	IK	
FLM5359-4F	5.3-5.9	-46	25.5	36.5	10.5	37	10	1100	1100	5	IB	
FLM5359-8F	5.3-5.9	-46	28.5	39.5	9.5	36	10	2200	2200	3	IB	
FLM5359-12F	5.3-5.9	-46	30.5	41.5	9.5	38	10	3250	3250	2.3	IK	
FLM5359-18F	5.3-5.9	-46	32	43	8.5	35	10	4800	4800	1.6	IK	
FLM5359-25F	5.3-5.9	-46	33.5	44.5	8.5	39	10	6200	6200	1.4	IK	
FLM5359-35F	5.3-5.9	-	-	45.5	9	35	10	8500	8500	1.1	IK	
FLM5359-45F	5.3-5.9	-	-	46.5	8.5	36	12	8000	8500	0.8	IK	
FLM5964-4F/001	5.85-6.75	-45	25.5	36.5	9.5	36	10	1100	1100	5	IB	
FLM5964-8F/001	5.85-6.75	-45	28.5	39.5	9	35	10	2200	2200	3	IB	
FLM5964-12F/001	5.85-6.75	-45	30.5	41.5	9	37	10	3250	3250	2.3	IK	
FLM5964-18F/001	5.85-6.75	-45	31.5	42.5	9	35	10	4400	4400	1.6	IK	
FLM5964-4F	5.9-6.4	-46	25.5	36.5	10	37	10	1100	1100	5	IB	
FLM5964-6F	5.9-6.4	-46	27.5	38.5	10	37	10	1625	1625	4	IB	
FLM5964-8F	5.9-6.4	-46	28.5	39.5	10	37	10	2200	2200	3	IB	
ELM5964-10F	5.9-6.4	-46	29	40.5	10	39	10	2600	2600	3	IB	
FLM5964-12F	5.9-6.4	-46	30.5	41.5	10	37	10	3250	3250	2.3	IK	
ELM5964-16F	5.9-6.4	-45	31.5	42.5	10	40	10	2800	4000	2.7	IK	
FLM5964-18F	5.9-6.4	-46	32	43	10	37	10	4875	4875	1.6	IK	
FLM5964-25F	5.9-6.4	-46	33.5	44.5	10	37	10	6500	6500	1.4	IK	
FLM5964-35F	5.9-6.4	-40	35	45.5	9	36	10	8000	8500	1.1	IK	
FLM5964-45F	5.9-6.4	-40	35.5	47	8.5	39	10	8000	11000	1.1	IK	
FLM5972-4F	5.9-7.2	-45	25.5	36.5	9.5	36	10	1100	1100	5	IB	
FLM5972-8F	5.9-7.2	-45	28	39	8.5	31	10	2200	2200	3	IB	
FLM5972-12F	5.9-7.2	-45	30.5	41.5	9.5	37	10	3250	3250	2.3	IK	
FLM6472-4F	6.4-7.2	-46	25.5	36.5	9.5	36	10	1100	1100	5	IB	
FLM6472-8F	6.4-7.2	-46	28.5	39.5	9.5	36	10	2200	2200	3	IB	
FLM6472-12F	6.4-7.2	-46	30.5	41.5	9.5	37	10	3250	3250	2.3	IK	
ELM6472-16F	6.4-7.2	-45	31.5	42.5	9.5	40	10	2800	4000	2.7	IK	
FLM6472-18F	6.4-7.2	-46	32	43	9.5	37	10	4875	4875	1.6	IK	
FLM6472-25F	6.4-7.2	-46	33.5	44.5	9.5	38	10	6500	6500	1.4	IK	

Note: Tc (op) = +25°C IM3: 3rd Order Intermodulation Distortion

Specifications

Part Number	Freq. (GHz)	IM3 (dBc)	SCL Pout (dBm)	P1dB (dBm)	G1dB (dB)	η_{add} (%)	VDS (V)	IDS (DC) (mA)	IDS(RF) (mA)	Rth (°C/W)	Package	Feature
FLM7179-4F	7.1-7.9	-46	25.5	36.5	9	35	10	1100	1100	5	IB	• 50Ω internally matched • No external matching • Optimized for each frequency band
FLM7179-8F	7.1-7.9	-46	28.5	39.5	9	35	10	2200	2200	3		
ELM7179-10F	7.1-7.9	-46	29	40.5	9	38	10	2600	2600	3	IK	
FLM7179-12F	7.1-7.9	-46	30.5	41.5	9	38	10	3250	3250	2.3		
ELM7179-16F	7.1-7.9	-43	31.5	42.5	8.5	38	10	2800	4000	2.7		
FLM7179-18F	7.1-7.9	-46	32	42.5	8	30	10	4875	4875	1.6		
FLM7185-6F	7.1-8.5	-45	27	38	8	30	10	1625	1625	4	IB	
FLM7185-12F	7.1-8.5	-45	30	41	8	30	10	3500	3500	2.3	IK	
FLM7785-4F	7.7-8.5	-46	25.5	36.5	8.5	35	10	1100	1100	5	IB	
FLM7785-6F	7.7-8.5	-46	27.5	38.5	8.5	31	10	1750	1750	4		
FLM7785-8F	7.7-8.5	-46	28.5	39.5	8.5	34	10	2200	2200	3		
ELM7785-10F	7.7-8.5	-46	29	40.5	8.5	37	10	2600	2600	3	IK	
FLM7785-12F	7.7-8.5	-46	30.5	41.5	8.5	34	10	3500	3500	2.3		
ELM7785-16F	7.7-8.5	-43	31.5	42.5	8	37	10	2800	4000	2.7		
FLM7785-18F	7.7-8.5	-45	31.5	42.5	7	29	10	4700	4700	1.6		
ELM7785-35F	7.7-8.5	-	-	45.5	8.5	35	10	8000	8500	1.1		
FLM7785-45F	7.7-8.5	-	-	46.5	7	32.5	10	8000	11000	1.1		
FLM8596-4F	8.5-9.6	-45	25.5	36	7.5	29	10	1100	1100	5	IA	
FLM8596-8F	8.5-9.6	-45	28.5	39	7.5	29	10	2200	2200	3	IB	
FLM8596-12F	8.5-9.6	-45	29.5	40.5	7.5	25	10	3600	3600	2.3		
FLM8596-15F	8.5-9.6	-	-	42	7.5	32	10	3600	4000	2.3	IA	
FLM0910-3F	9.5-10.5	-46	24	35	7.5	29	10	900	900	5		
FLM0910-4F	9.5-10.5	-46	25.5	36	7.5	29	10	1100	1100	5		
FLM0910-8F	9.5-10.5	-46	28.5	39	7.5	29	10	2200	2200	3	IB	
FLM0910-12F	9.5-10.5	-	-	40.5	7	25	10	3500	3500	2.3		
FLM0910-15F	9.5-10.5	-	-	42	7.5	32	10	3600	4000	2.3	IK	
FLM0910-25F	9.5-10.5	-	-	44	7	30	10	6500	6500	1.4		
FLM1011-3F	10.7-11.7	-46	24	35	7.5	29	10	900	900	5	IA	
FLM1011-4F	10.7-11.7	-46	25.5	36	7	29	10	1100	1100	5		
FLM1011-6F	10.7-11.7	-49	25	37.5	7.5	28	10	1800	1800	4	IB	
FLM1011-8F	10.7-11.7	-46	28.5	39	7	29	10	2200	2200	3		
FLM1011-12F	10.7-11.7	-45	29.5	40.5	6	25	10	3600	3600	2.3		
FLM1011-15F	10.7-11.7	-45	30	42	7	31	10	3600	4000	2.3	IK	
FLM1011-20F	10.7-11.7	-45	31	43	7	27	10	6000	6000	1.4		
FLM1213-4F	12.7-13.2	-46	25.5	36	6.5	28	10	1100	1100	5	IA	
FLM1213-6F	12.7-13.2	-49	25	37.5	7	28	10	1650	1650	4		
FLM1213-8F	12.7-13.2	-46	28.5	39	6.5	28	10	2200	2200	3	IB	
FLM1213-12F	12.7-13.2	-45	28	40.5	5.5	24	10	3300	3300	2.3		
FLM1314-3F	13.75-14.5	-45	24	35	5.5	27	10	900	900	5	IA	
FLM1314-6F	13.75-14.5	-45	26.5	37.5	5.5	22	10	1800	1800	4		
FLM1314-8F	13.75-14.5	-45	28	39	6	27	10	2400	2400	2.8		
ELM1314-9F	13.75-14.5	-30	33	39.5	6	30	10	1750	2400	3.5		
FLM1314-12F	13.75-14.5	-45	29	41	6	23	10	4200	4200	1.8	IB	
FLM1314-18F	13.75-14.5	-30	36	42.5	6	27	10	5000	5000	1.8		
ELM1314-30F/001	13.75-14.5	-30	38	44.5	5.5	22	10	7000	9000	1	M2A	
FLM1414-3F	14.0-14.5	-46	24	35	6.5	27	10	900	900	5	IA	
FLM1414-4F	14.0-14.5	-46	25.5	36	6	27	10	1100	1100	5		
FLM1414-6F	14.0-14.5	-46	26.5	37.5	6.5	24	10	1800	1800	4		
FLM1414-8F	14.0-14.5	-46	28.5	39	6	27	10	2200	2200	3	IB	
FLM1414-12F	14.0-14.5	-	-	41	6	23	10	3600	3600	1.8		
FLM1414-15F	14.0-14.5	-45	30	42	6	26	10	4200	4200	1.8	M2A	
ELM1414-30F/001	14.0-14.5	-30	38	44.5	6	22	10	7000	9000	1		
FLM1415-3F	14.5-15.3	-45	23.5	34.5	5.5	23	10	900	900	5	IA	
FLM1415-4F	14.5-15.3	-	-	36	5.5	26	10	1100	1100	5		
FLM1415-6F	14.5-15.3	-45	26	37	5.5	20	10	1800	1800	4		
FLM1415-8F	14.5-15.3	-	-	39	5	25	10	2200	2200	3		

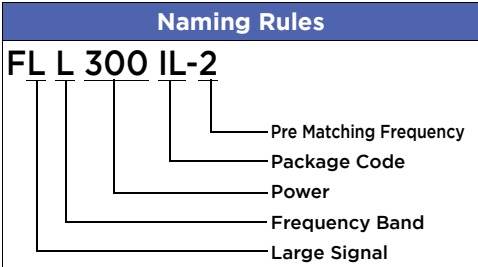
Note: Tc (op) = +25°C IM3: 3rd Order Intermodulation Distortion

Power GaAs

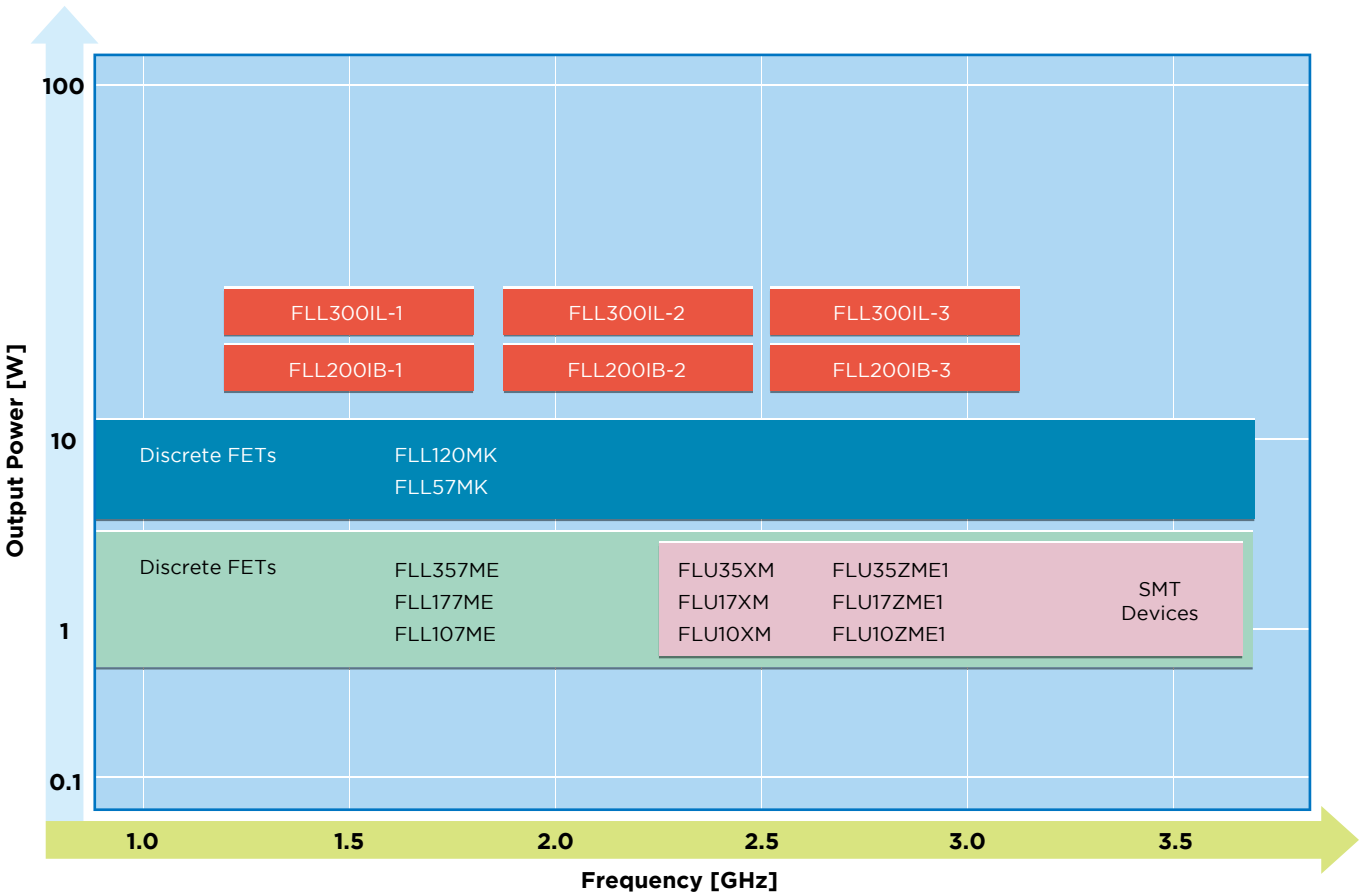
High Power GaAs FETs

Sumitomo Electric has developed 40W - 80W high power Push-Pull GaAs FETs for Mobile Base Station applications such as Cellular, WCDMA, LTE and WiMAX. Additionally, plastic packaged devices are under development for cost driven systems.

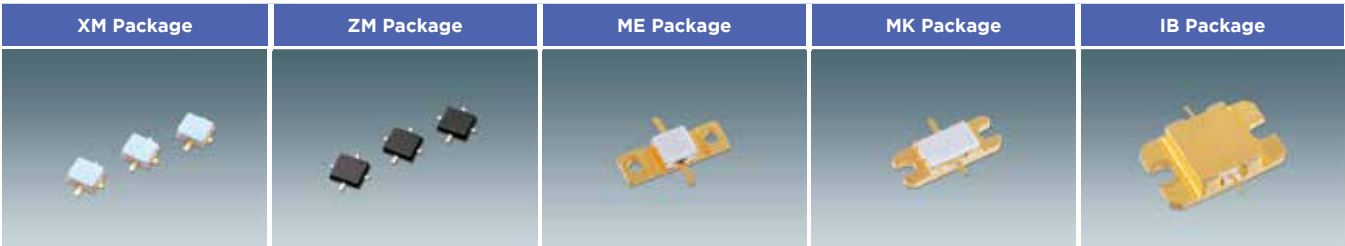
- Features**
- High Output Power: Up to 40W
 - High Gain
 - Operating Voltage: 10V, 12V
 - Proven Reliability



L-Band, S-Band High Output GaAs FET Lineup



Product Photo



Specifications

Part Number	Freq. Band	Series	P1dB (dBm)	G1dB (dB)	η_{add} (%)	Specified Freq. (GHz)	VDS (V)	IDS(DC) (mA)	Rth (°C/W)	Package
FLU10XM	L	FLU	29.5	14.5	47	2	10	180	25	XM
FLU10ZME1	L	FLU	29.5	13	46	2	10	180	15	ZM
FLU17XM	L	FLU	32.5	12.5	46	2	10	360	15	XM
FLU17ZME1	L	FLU	32.5	12.5	45	2	10	360	12	ZM
FLU35XM	L	FLU	35.5	12.5	46	2	10	720	7.5	XM
FLU35ZME1	L	FLU	35.5	11.5	45	2	10	720	5	ZM
FLL107ME	L	FLL	29.5	13.5	47	2.3	10	180	25	ME
FLL177ME	L	FLL	32.5	12.5	46	2.3	10	360	15	
FLL357ME	L	FLL	35.5	11.5	46	2.3	10	720	7.5	
FLL57MK	L	FLL	36.0	11.5	37	2.3	10	990	6.2	MK
FLL120MK	L	FLL	40.0	10	40	2.3	10	2200	3.3	
FLL200IB-1	L	FLL	42.5	13	35	1.5	10	4800	1.6	IB
FLL200IB-2	L	FLL	42.5	11	34	2.3	10	4800	1.6	
FLL200IB-3	L	FLL	42.5	11	34	2.6	10	4800	1.6	
FLL300IL-1	L	FLL	44.5	13	45	0.9	10	6000	1	IL
FLL300IL-2	L	FLL	44.5	12	44	1.8	10	6000	1	
FLL300IL-3	L	FLL	44.5	10	42	2.6	10	6000	1	
FLC057WG	C	FLC	27.0	9	38	8	10	120	27	WG
FLC097WF	C	FLC	28.8	8.5	35	6	10	180	25	WF
FLC107WG	C	FLC	30.0	8	36	8	10	240	16	WG
FLC167WF	C	FLC	31.8	7.5	35	6	10	360	15	WF
FLC257MH-6*	C	FLC	34.0	9	36	6.4	10	600	8	MH
FLC257MH-8*	C	FLC	34.0	8	35	8.5	10	600	8	
FLX107MH-12*	X	FLX	30.0	7.5	33	12.5	10	240	15	
FLX207MH-12*	X	FLX	32.5	7	28	12.5	10	480	10	
FLK017WF	Ku	FLK	20.5	7.5	26	14.5	10	36	65	WF
FLK027WG	Ku	FLK	24.0	7	32	14.5	10	60	40	WG
FLK057WG	Ku	FLK	27.0	7	32	14.5	10	120	20	
FLK107MH-14*	Ku	FLK	30.0	6.5	31	14.5	10	240	15	MH

*: Partially Input/Output Matched

Product Photo

