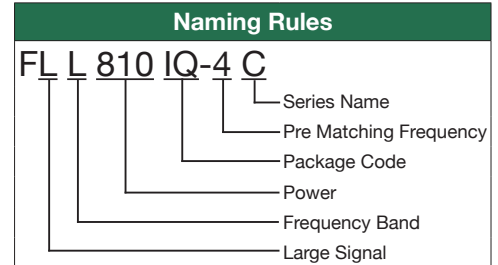


High Power GaAs FETs

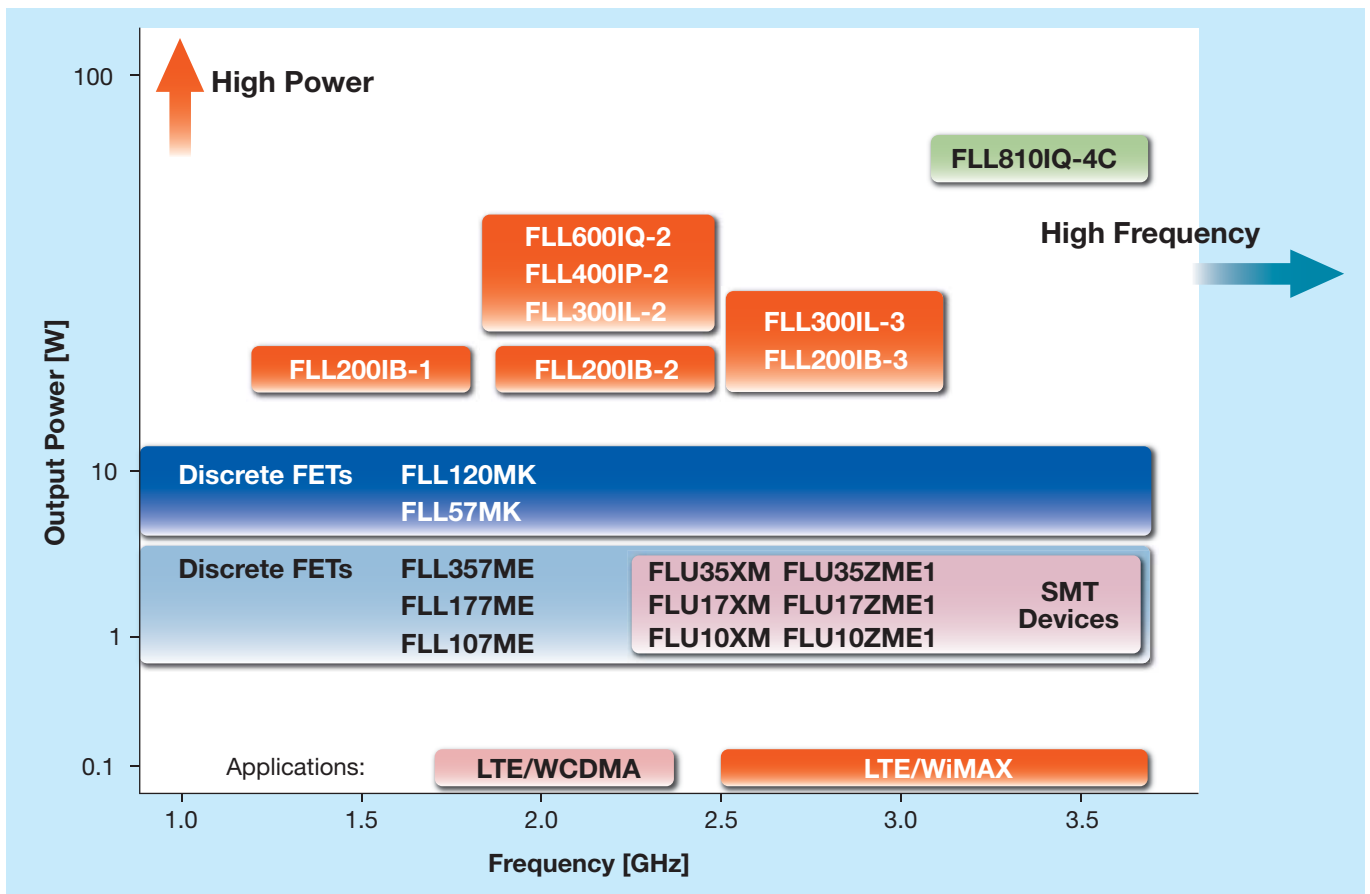
Sumitomo Electric has developed 40W - 80W high power Push-Pull GaAs FETs for Mobile Base Station applications such as Cellular, WCDMA, LTE and WiMAX. Additionally, plastic packaged devices are under development for cost driven systems.

Features

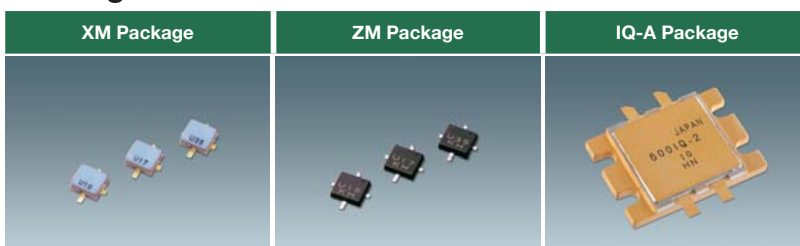
- High Output Power: Up to 80W
- High Gain
- Operating Voltage: 10V, 12V
- Proven Reliability



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



Package Photo



High Power GaAs FETs

Specifications

Part Number	Frequency Band	Series	P1dB Typ. (dBm)	G1dB Typ. (dB)	η_{add} Typ. (%)	Frequency (GHz)	VDS Typ. (V)	IDS(DC) Typ. (mA)	Rth Typ. ($^{\circ}$ C/W)	Outline/Package Code	Feature	
FLU10XM	L	FLU	29.5	14.5	47	2	10	180	25	XM	SMT-Device	
FLU10ZME1 ^{*4}	L	FLU	29.5	13.0	46	2	10	180	15	ZM		
FLU17XM	L	FLU	32.5	12.5	46	2	10	360	15	XM		
FLU17ZME1 ^{*4}	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 ^{*4}	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	Single-end	
FLL177ME	L	FLL	32.5	12.5	46	2.3	10	360	15	ME		
FLL357ME	L	FLL	35.5	11.5	46	2.3	10	720	7.5	ME		
FLL57MK	L	FLL	36	11.5	37	2.3	10	990	6.2	MK		
FLL120MK	L	FLL	40	10.0	40	2.3	10	2200	3.3	MK		
FLL200IB-1 ^{*1}	L	FLL	42.5	13.0	35	1.5	10	4800	1.6	IB		
FLL200IB-2 ^{*1}	L	FLL	42.5	11.0	34	2.3	10	4800	1.6	IB		
FLL200IB-3 ^{*1}	L	FLL	42.5	11.0	34	2.6	10	4800	1.6	IB		
FLL300IL-1	L	FLL	44.5	13.0	45	0.9	10	6000	1.0	IL		
FLL300IL-2	L	FLL	44.5	12.0	44	1.8	10	6000	1.0	IL		
FLL300IL-3	L	FLL	44.5	10.0	42	2.6	10	6000	1.0	IL		
FLL400IP-2	L	FLL	45.5	10.0	44	1.96	12	2000	1.0	IP		
FLL600IQ-2	L	FLL	48.0	10.5	43	1.96	12	4000	0.8	IQ-A		Push-Pull
FLL810IQ-4C	S	FLL	49.0 ^{*2}	9.5 ^{*3}	45	3.6	12	5000	0.8	IQ-B		

Part Number	Frequency Band	Series	P1dB Typ. (dBm)	G1dB Typ. (dB)	η_{add} Typ. (%)	Frequency (GHz)	VDS Typ. (V)	IDS(DC) Typ. (mA)	Rth Typ. ($^{\circ}$ C/W)	Outline/Package Code	Feature
FLC097WF	C	FLC	28.8	8.5	35	6	10	180	25	WF	General-use
FLC167WF	C	FLC	31.8	7.5	35	6	10	360	15	WF	
FLC257MH-6 ^{*1}	C	FLC	34	9	36	6.4	10	600	8	MH	
FLC057WG	C	FLC	27	9	38	8	10	120	27	WG	
FLC107WG	C	FLC	30	8	36	8	10	240	16	WG	
FLC257MH-8 ^{*1}	C	FLC	34	8	35	8.5	10	600	8	MH	
FLX107MH-12 ^{*1}	X	FLX	30	7.5	33	12.5	10	240	15	MH	
FLX207MH-12 ^{*1}	X	FLX	32.5	7	28	12.5	10	480	10	MH	
FLK017WF	Ku	FLK	20.5	7.5	26	14.5	10	36	65	WF	
FLK027WG	Ku	FLK	24	7	32	14.5	10	60	40	WG	
FLK057WG	Ku	FLK	27	7	32	14.5	10	120	20	WG	
FLK107MH-14 ^{*1}	Ku	FLK	30	6.5	31	14.5	10	240	15	MH	
FLK207MH-14 ^{*1}	Ku	FLK	32.5	6	27	14.5	10	480	10	MH	

*1: Partially Input/Output Matched *2: Pout *3: GL *4: Plastic Mold Package Note: Tc(op)=+25°C