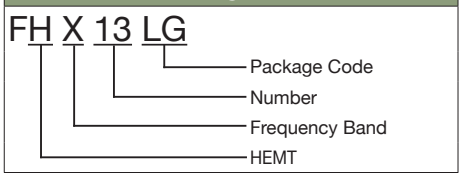
GaAs HEMTs (High Electron Mobility Transistors)

HEMT series of products was developed by Sumitomo Electric for a wide range of general purpose applications including, but not limited, to DBS converters, Handsets, Base Station, Radio-Telescope and many other applications where low-noise and gain is required. Sumitomo Electric has a full line-up of HEMT products specified for applications in the 4GHz to 12GHz frequency range.

Naming Rules



Specifications

Part Number	Noise figure NF Typ. (dB)	Associated Gain Gas Typ. (dB)	Drain Voltage VDS (V)	Drain Current IDS (mA)	Frequency f (GHz)	Outline/ Package Code	Application
FHC40LG	0.3	15.5	2	10	4	LG	Low Noise Amp, TVRO, BTS
FHC30LG	0.35	14.5	2	10	4	LG	
FHX76LP	0.4	13.5	2	10	12	LP	Low Noise Amp
FHX13LG	0.45	13.0	2	10	12	LG	
FHX14LG	0.55	13.0	2	10	12	LG	
FHX04LG	0.75	10.5	2	10	12	LG	
FHX05LG	0.9	10.5	2	10	12	LG	
FHX06LG	1.1	10.5	2	10	12	LG	
FHX35LG	1.2	10.0	3	10	12	LG	Low Noise Amp, Mixer, GPS
FHX35LP	1.2	10.0	3	10	12	LP	

Part Number	Noise figure NF Typ. (dB)	Associated Gain Gas Typ. (dB)	Drain Voltage VDS (V)	Drain Current IDS (mA)	Frequency f (GHz)	Application
FHX13X	0.45	13	2	10	12	Low Noise Amp
FHX14X	0.55	13	2	10	12	
FHX04X	0.75	10.5	2	10	12	
FHX05X	0.9	10.5	2	10	12	
FHX06X	1.1	10.5	2	10	12	
FHX45X	0.55	12	2	10	12	
FHX35X	1.2	10	2	10	12	

X: Conventional Chip

LG Package

LP Package