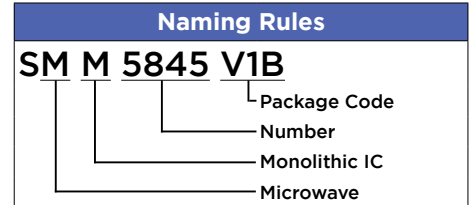


C to Ka Band Power Amplifier MMICs (Packages)

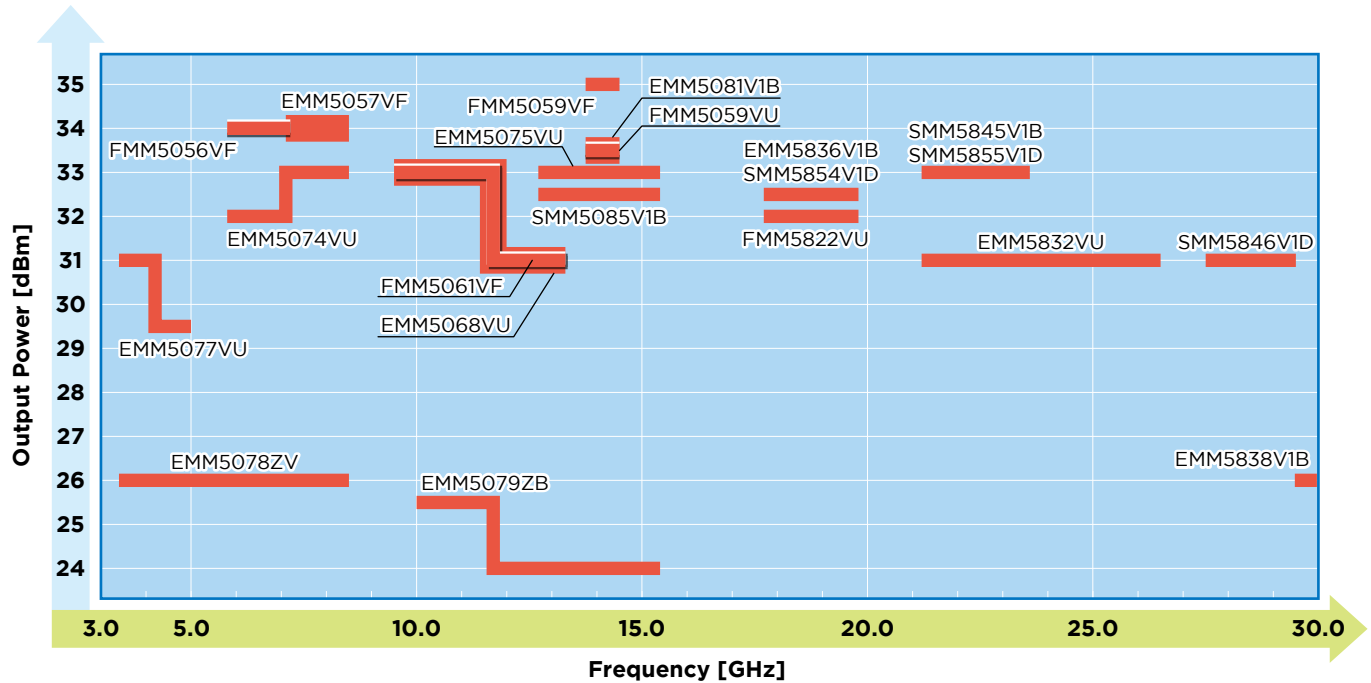
Sumitomo Electric provides GaAs power amplifier MMICs mounted in a suitable high frequency package with output power 50mW - 2W at frequencies ranging from C-band to Ka-band. Sumitomo Electric provides various types of packages including highly reliable hermetically sealed types, low cost surface mount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

Features

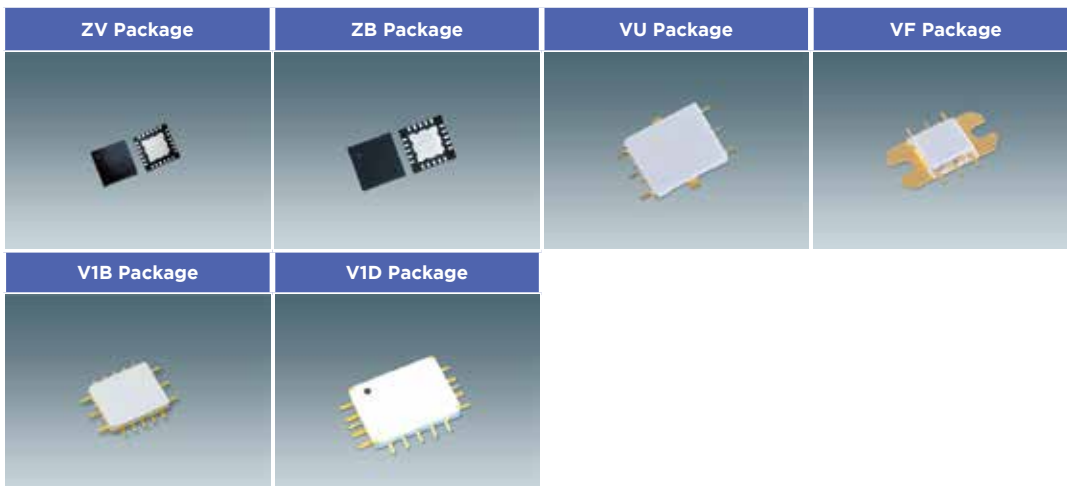
- Input and Output Internally Matched $Z_{in}/Z_{out} = 50\Omega$
- High Output Power (Up to 2W)
- High Gain
- Low Distortion
- Small Hermetically Sealed Package (V1B/V1D/VU/VF)
- Low Cost Surface Mount Package (ZV/ZB/V1B/V1D/VU)



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	Power Amp.C-Band VSAT and Radio Link
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	Power Amp.Radio Link
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	Power Amp.Ku-Band VSAT
EMM5838V1B	29.5-30.0	26	24	-	6	220	280	V1B	

G.C.P.: Gain Compression Point

Note: Tc=+25°C