

Power GaN

GaN HEMTs for Radar C/X-band

Features

- High Power up to 520W(Typ.)
- High Gain
- High Efficiency
- Broad Band
- Impedance Matched Z in/Z out = 50ohm
- Small Flangeless Package

Naming Rules

SGC 8598-50 B - R

SGC

8598

50

B

R

Radars Applications

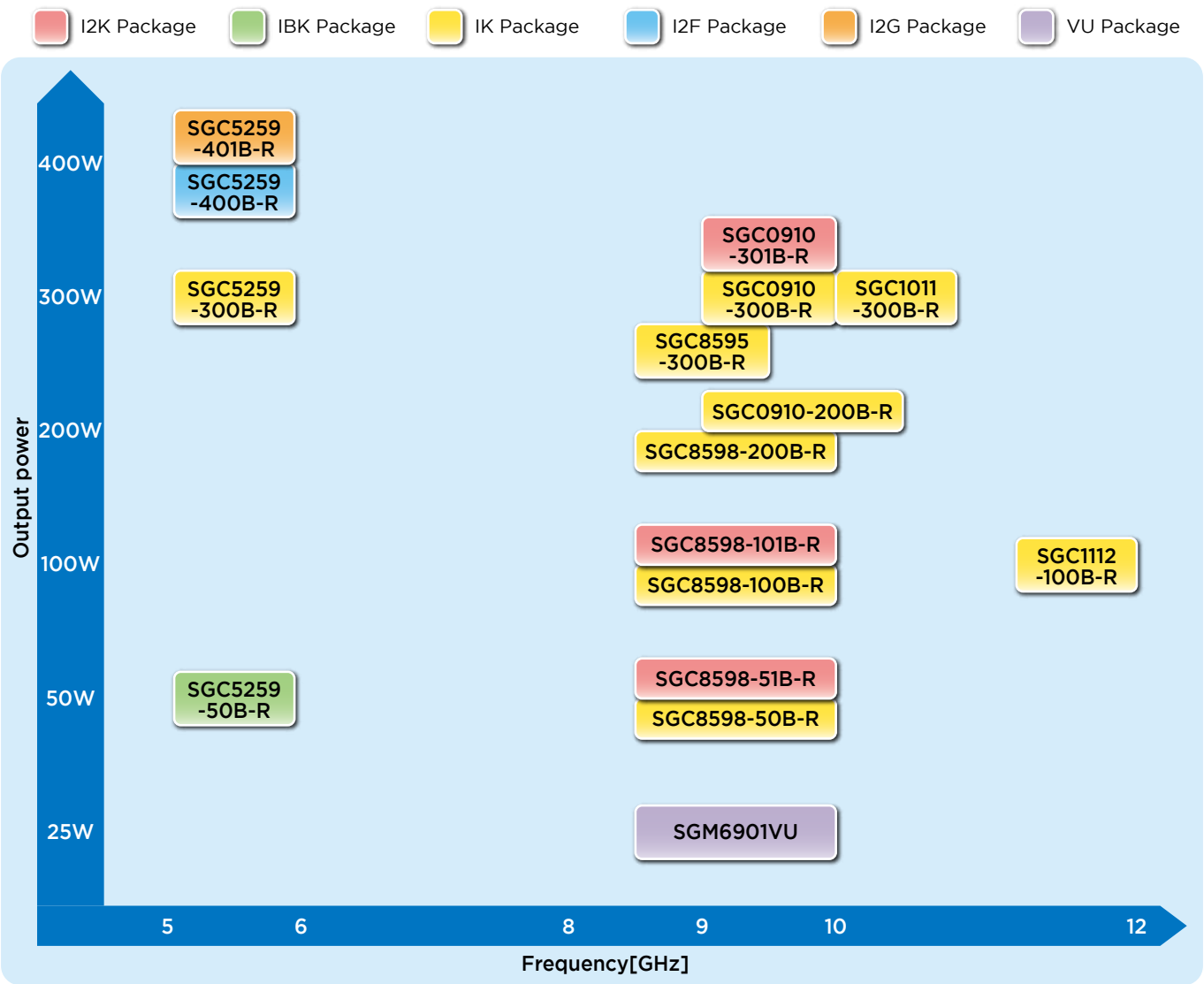
Series Name

Output Power (W)

Frequency
(Ex 5254 : 5.2 to 5.4GHz)

Internally Matched GaN-HEMT

GaN HEMTs for Radar C/X Lineup



Product Photo





Part Number	Freq. (GHz)	Pout Typ. (dBm)	Gp Typ. (dB)	Efficiency (%)	VDS (V)	IDS(DC) (A)	Conditions Pulse Width/Duty	Pkg
SGC5259-50B-R	5.2-5.9	48	13	51	50	0.17	100μs/10%	IBK
SGC5259-300B-R	5.2-5.9	55.8(~5.7) 55.4(5.7~)	13.8(~5.7) 13.4(5.7~)	51	50	1		IK
SGC5259-400B-R	5.2-5.9	57.2	14.2	50	50	1.3		I2F
SGC5259-401B-R	5.2-5.9	57.2	14.2	50	50	1.3		I2G
SGC8598-50B-R	8.5-9.8	48	11	41	50	0.17		IK
SGC8598-51B-R	8.5-9.8	48	11	41	50	0.17		I2K
SGC8598-100B-R	8.5-9.8	51	10	41	50	0.33		IK
SGC8598-101B-R	8.5-9.8	51	10	39	50	0.33		I2K
SGC8598-200B-R	8.5-9.8	54	10	39	50	0.66		IK
SGC8595-300B-R	8.5-9.5	55.3(~9.17) 54.7(9.17~)	9.3(~9.17) 8.7(9.17~)	38	50	1		
SGC0910-200B-R	9.2-10.5	53.5(~10.1) 52.5(10.1~)	9.5(~10.1) 8.5(10.1~)	39	50	0.66		
SGC0910-300B-R	9-10	55.3(~9.6) 54.7(9.6~)	9.3(~9.6) 8.7(9.6~)	38	50	1		I2K
SGC0910-301B-R	9-10	55.3(~9.6) 54.7(9.6~)	9.3(~9.6) 8.7(9.6~)	38	50	1		
SGC1011-300B-R	9.8-10.5	55(~10.3) 54.4(10.3~)	9.0(~10.3) 8.4(10.3~)	37	50	1		IK
SGC1112-100B-R	11.4-12	51	9	37	50	1		VU
SGM6901VU	8.5-10.1	45.3(~9.8) 44.8(9.8~)	23.3(~9.8) 22.8(9.8~)	38	50	0.2		

I2G Package

