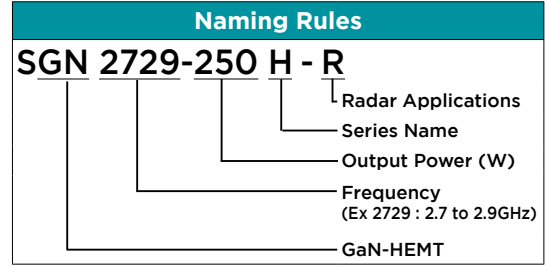


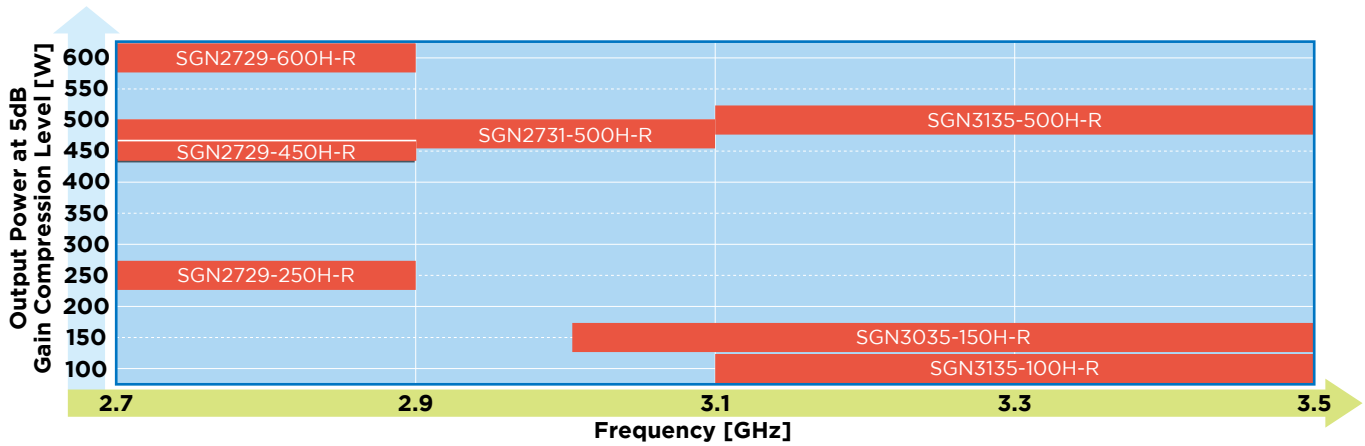
# GaN HEMTs for Radar L/S

## Features

- Designed for S-band Radar Applications
- 50 ohm matched
- High Power: Up to 600W
- High Efficiency: 65%
- High Operating Voltage: 50V
- Broadband Operation
- High Gain
- Low Thermal Resistance (Rth)



## GaN HEMTs for Radar L/S Lineup



## Specifications

Part Number	Freq. (GHz)	Pout (W)	Gp (dB)	$\eta_{add}$ (%)	VDS (V)	IDS (DC) (mA)	Rth ( $^{\circ}$ C/W)	Condition	Package
SGN1214-220H-R	1.2-1.4	220	17.8	65	50	1000	0.55	Pulse Width:5msec, Duty:10%	IV
SGN21-120H-R	1.7-2.5*2	125	14.5	67.5	50	500	1.1		
SGN2729-250H-R	2.7-2.9	250	13	65	50	750	1.1	Pulse Width:200 $\mu$ sec, Duty:10%	
SGN2729-450H-R*1	2.7-2.9	450	13	65	50	1100	0.55		
SGN2729-600H-R	2.7-2.9	600	12.8	60	50	1500	0.55		
SGN2731-500H-R	2.7-3.1	480	11.8	57	50	1500	0.55	Pulse Width:5msec, Duty:10%	
SGN3035-150H-R	3.0-3.5	150	13.8	62	50	500	1.1		
SGN3135-100H-R*1	3.1-3.5	100	12.5	57	50	500	1.3	Pulse Width:200 $\mu$ sec, Duty:10%	IV
SGN3135-500H-R*1	3.1-3.5	500	11	58	50	1500	0.55		

\*1: Under Development

\*2: test Frequency 2.1GHz

Note: Tc (op)=+25 $^{\circ}$ C

## Specifications (Driver Stage)

Part Number	Freq. (GHz)	P3dB (dBm)	GL (dB)	$\eta_{add}$ (%)	VDS (V)	IDS (DC) (mA)	Rth ( $^{\circ}$ C/W)	Package
SGFCF2002S-D	3	43.6	28.6	45	50	135	3.8	Z2D
SGN31E030MK	3.1	46	15	40	50	200	2	MK
SGNE010MK	3.5	40.5	16	55	50	100	4.5	

Note: Tc (op)=+25 $^{\circ}$ C

## Product Photo

