Space Product Introduction

Introduction

Sumitomo Electric combining advanced technological leadership with over 30 years of design, development, and manufacturing of satellite devices, offers a broad range of RF products, from Low Noise HEMTs to High Power RF Devices. These products undergo an extensive qualification process to assure the absolute highest reliability and superior technical performance expected for long term spacecraft missions.

The reputation and dependability of our customers' flight hardware is highest priority of Sumitomo Electric. Our advanced, dedicated manufacturing facility for satellite products provides the customer with the highly reliable and quality products needed for extended satellite missions.

In addition to the extensive space qualified product offering available, Sumitomo Electric provides custom MMIC designs for the customers who have unique requirements. These MMIC designs include Power Amplifiers, Low Noise Amplifiers, Analog/Digital Attenuators, Digital Phase Shifters, and Detectors.

This catalog provides the customer with the technical information necessary to select their product line-ups. More detailed specifications are available upon request directly from our sales offices as shown on our web site.

Space Qualification

STANDARD

- MIL-PRF-19500: Semiconductor Devices, General
- Specification for
- MIL-STD-750:Test Methods for Semiconductor Devices
- MIL-STD-883:Test Methods for Microelectronic Devices

Quality Management

ISO 90001 : 2015/JIS Q 9001 : 2015 Certificate Number: JMI-0278

Last Renewal Date Expiry Date

Registration Date : September 17, 1993 September 15, 2021 September 14, 2024

Quality Management for Aerospace

JIS Q 9100 : 2016 (AS9100D, prEN9100 : 2018) Certificate Number : JQA-AS0068

Registration Date : August 20, 2010 Last Renewal Date : September 15, 2021 Expiry Date September 14, 2024

OASIS Identification Number : 6131093485

Environmental Management

ISO14001 Record (Certificate Number : EC98J1050)

Aug.	1998	ISO14001
Aug.	2004	Expansion to Eudyna Microwave Assembly(Kofu)
Aug.	2007	Expansion to Eudyna Microwave Assembly(Matsushiro)
Aug.	2010	ISO14001: 2004 (Sumitomo Electric Device Innovations, Inc
Luis	2010	ICO14001: 2015 Transfor

Sumitomo plans to terminate some of GaN HEMT products manufactured by outdated equipment and to replace them with new GaN

technology dies. Contact us if you are interested or have any questions.



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Customer Support

Line-ups

Samples

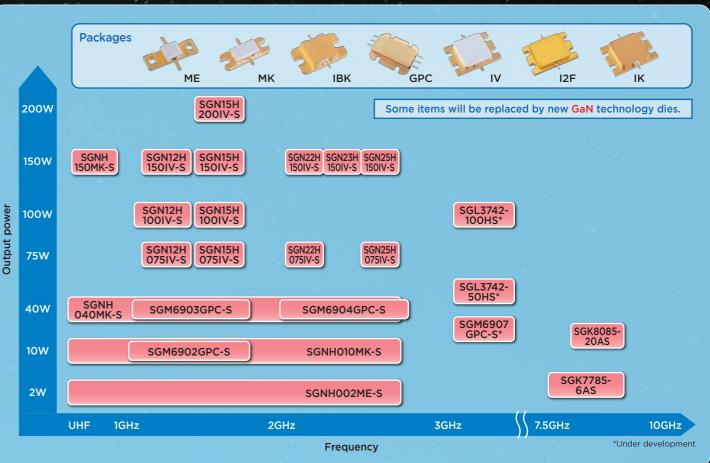
Specifications

Operating Conditions

Reliability Analysis

DPAs Construction Analysis

GaN HEMTs for Space





JIS Q 9100



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Part Number	Freq. (GHz)	Pout Typ. (W)	P4dB typ. (dBm)	GL (dB)	PAE Typ. (%)	VDS (V)	Pkg	
SGN12H075IV-S	1.20~1.25	75	48.5	18	73	50		
SGN12H100IV-S	1.15 ~1.25	100	50.4	19	71	50		
SGN12H150IV-S	1.20~1.25	150	51.5	18	73	50		
SGN15H075IV-S	1.55~1.60	75	48.5	18.5	72	50		
SGN15H100IV-S	1.55~1.60	100	50.1	18.5	70	50	IV	
SGN15H150IV-S	1.55~1.60	150	51.5	18.8	71	50		
SGN15H200IV-S	1.55~1.60	200	53	18	70	50	10	
SGN22H075IV-S	2.2	75	48.5	19	65.5	50		
SGN22H150IV-S	2.2	150	51.3	18.4	63	50		
SGN23H150IV-S	2.3	150	52	17	60	50		
SGN25H075IV-S	2.5	75	49	17.5	61	50		
SGN25H150IV-S	2.5	150	51.5	17.3	59	50		
SGNH002ME-S	2.5	2	33	22	53	50	ME	
SGNH010MK-S	2.5	10	40.8	17	54	50		
SGNH040MK-S	2.5	40	46.2	15	51	50	MK	
SGNH150MK-S	0.45	150	51.8	21	79	50		
SGM6902GPC-S	1.0~1.7	10	39.5	30.5	35	50		
SGM6903GPC-S	1.1~1.7	40	46	30	43	50	GPC	
SGM6904GPC-S	2.0~2.7	40	46.2	29.2	49	50		
SGK7785-6AS	7.7-8.5	6	38	15	47	24	IBK	
SGK8085-20AS	8.0-8.5	20	44	12	40	24		
SGM6907GPC-S*	3.7~4.2	30	45	28	40	40	GPC	
SGL3742-50HS*	3.7~4.2	50	48	16	60	40	IK	
SGL3742-100HS*	3.7~4.2	100	50	16	60	40	IK	



*Under Developmen