

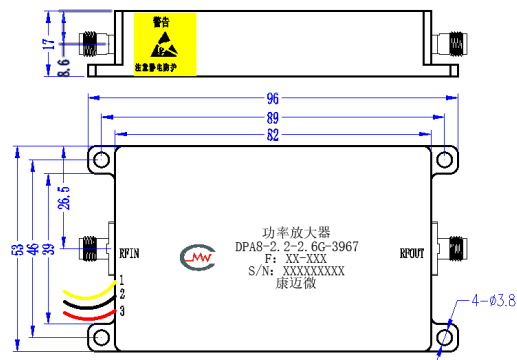
Main specifications

Parameters	Min	Typical	Max	Units	Note
Frequency	2.2	~	2.6	GHz	
Gain		44		dB	Small signal gain
Flatness in band		±3		dB	
Input VSWR		3			
Output power	35	50		W	CW
Efficiency	35	40		%	
Harmonic Rejection		20		dBc	
Spurious suppression		45		dBc	F0±300KHz
ACP		66		dBc	

Reference picture



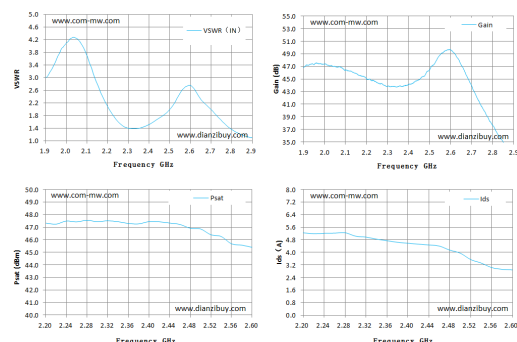
Configuration



Other parameters

Connector	SMA-K
Impedance	50Ω
Surface	Conductive oxidation
Working voltage	+28±4V
Working current	5.5A
Operation Temp.	-30~+60℃ Design assurance
Other	For long-term work, it is recommended to keep the temperature below 40 °C

Typical test curve



Port Definition

No .	Na me	definition	Directi on	Note
1	EN	Enable (yellow line)	I	0: “OFF”; 1 (+5V): “ON”
2	GND	Power Ground (Black Line)	I	
3	VD	Power supply (red line)	I	+28 $\pm$ 4V

Note: The specifications and performance data contained in this data sheet are based on tests established by CMW.

Typical test data

F (GHz)	2.2	2.2	2.3	2.3	2.4	2.5	2.5	2.6
	6	6	2	8	4		6	
VSWR (IN)	2.0 8	1.5 5	1.3 9	1.4 6	1.6 9	1.9 9	2.6 1	2.7 5
Psat (dBm)	47. 33	47. 42	47. 51	47. 26	47. 33	46. 86	45. 68	45. 4
Psat (W)	54. 08	55. 21	56. 36	53. 21	54. 08	48. 53	36. 98	34. 67
Gain (dB)	45. 12	44. 33	43. 83	43. 95	44. 72	46. 43	49. 12	49. 64
Ids (A)	5.2 4	5.2 2	4.9 7	4.6 4	4.4 7	3.9 5	3.0 3	2.8 8
η (%)	36. 86	37. 77	40. 5	40. 96	43. 21	43. 88	43. 59	43
2nd harmonic rejection (dBc)	59. 8	57. 3	56. 7	56	51. 3	51	60. 87	56. 5
3rd harmonic rejection (dBc)	55. 6	58. 9	56. 1	45. 69	35. 1	30. 1	29. 1	30. 08
4次谐波抑制 (dBc)	69. 5	80	76. 4	68. 9	65. 8	71	70	68. 7
Spurious suppression	46. 3	48. 4	47. 1	47. 8	46. 44	46. 9	47. 4	61
ACP (dBc)	68. 8	68. 9	68. 6	68. 4	68. 1	67. 4	66. 6	66. 2

Note

Store in an environment with humidity less than 25%, pay attention to dust and static electricity prevention;

Please pay attention to the power consumption of the product and consider the issue of amplifier heat dissipation during design;

Equipped with output on/off control interface

Clean the surface of the product, do not soak the product in cleaning solution for cleaning.