

Main specifications

Parameters	Min	Typical	Max	Units	Note
Frequency	1	~	2.4	GHz	
Gain		31		dB	Saturated gain
Flatness in band		±5		dB	
Output power		45		dBm	CW
Efficiency		30		%	
Harmonic Rejection		18		dBc	
Spurious suppression		60		dBc	F0±300kHz
ACP (dBc)		60		dBc	

Other parameters

Input connector	SMA-F
Output port	N -F
Impedance	50Ω
Surface	Color conductive oxidation
Working voltage	+28V±4V
Working current	7A
Operation Temp.	-40~+60℃ Design assurance
Other	For long-term work, it is recommended to keep the temperature below 40 °C

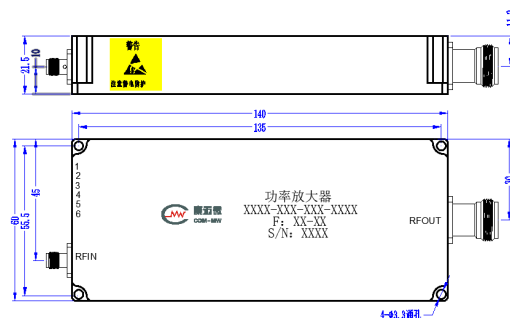
Pin Definition

No.	definition	Note
1, 2	+28V	供电线用1-1.5mm ²
3, 4	GND	供电线用1-1.5mm ²
5	EN	0 (OFF): 0V (接地); 1 (ON): 3.3~5V; 不建议悬空使用
6	NC	使用时悬空

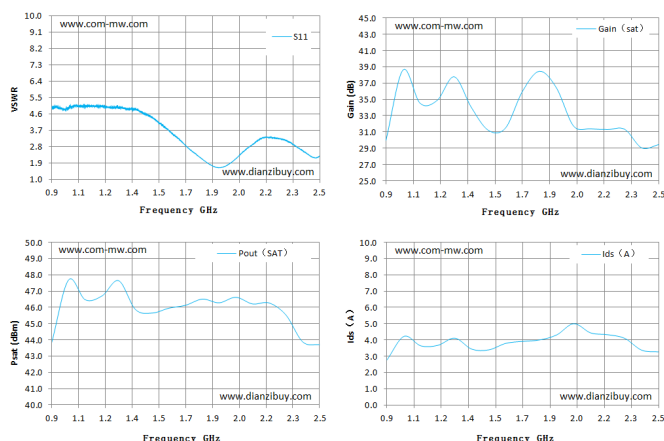
Reference picture



Configuration



Typical test curve



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 and built-in protection function;

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

Typical test data

F (GHz)	1	1.2	1.4	1.6	1.8	2	2.2	2.4
Pin (dBm)	3.2 7	4.1 3	1.4 4	3.0 9	5.1 6	7.7 9	5.7 8	5.8 3
Pout (SAT) (dBm)	46. 95	45. 06	45. 85	43. 75	45. 38	45. 52	44. 64	42. 26
Pout (SAT) (W)	49. 54	32. 06	38. 45	23. 71	34. 51	35. 64	29. 10	16. 82
Ids (A)	3.8 7	2.9 2	3.3 4	2.6 7	3.3 0	4.1 1	3.3 7	2.5 4
Gain (SAT) (dB)	43. 68	40. 93	44. 41	40. 66	40. 22	37. 73	38. 86	36. 43
η (%)	45. 72	39. 21	41. 12	31. 71	37. 35	30. 97	30. 84	23. 65
2次谐波抑制 (dBC)	17. 90	9.8 0	20. 00	35. 50	37. 00	40. 00	38. 10	47. 40
3次谐波抑制 (dBC)	20. 50	23. 00	20. 00	41. 00	46. 20	41. 90	41. 10	28. 60
4th harmonic rejection (dBC)	28. 90	41. 30	46. 20	46. 70	41. 50	44. 40	53. 80	45. 40
杂波抑制 (dBC)	55. 40	58. 20	56. 40	53. 30	54. 30	53. 40	55. 40	56. 70
ACP (dBC)	68. 70	68. 90	66. 40	65. 00	65. 10	63. 40	62. 90	62. 60

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