

Product features

输出功率可达100W。

Main specifications

Parameters	Min	Typical	Max	Units	Note
Frequency	20	~	1000	MHz	
Gain		38		dB	Saturated gain
Flatness in band		± 6		dB	
Input VSWR		4			
Output power		47.5		dBm	CW
Efficiency		25		%	
Harmonic Rejection		10		dBc	
Spur reduction		60		dBc	
ACP		65		dBc	

Other parameters

Input connector	SMA-K
Output port	N -K
Impedance	50 Ω
Surface	Color conductive oxidation
Working voltage	+28 $\pm$ 4V
Working current	15A
Operation Temp.	-40~+75°C Design assurance

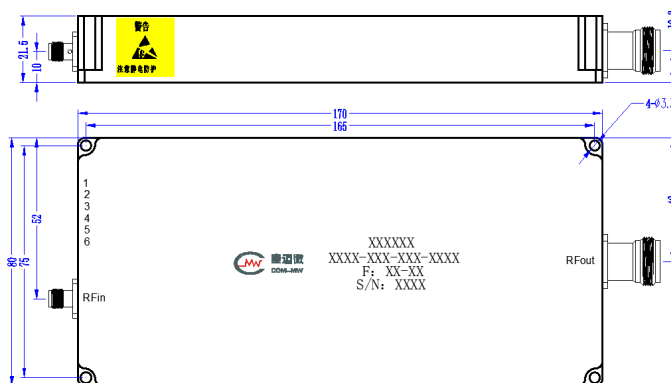
Interface Definition (3.5mm-6P)

No.	definition	Illustrate
1, 2	+28V	V+, 必须2路供电, 供电线建议采用1~1.5mm ²
3,4	GND	V-, 电源地, 必须2路供电, 供电线建议采用1~1.5mm ²
5	EN	0 (OFF): 0V (接地); 1 (ON): 3.3~5V
6	NC	Not used

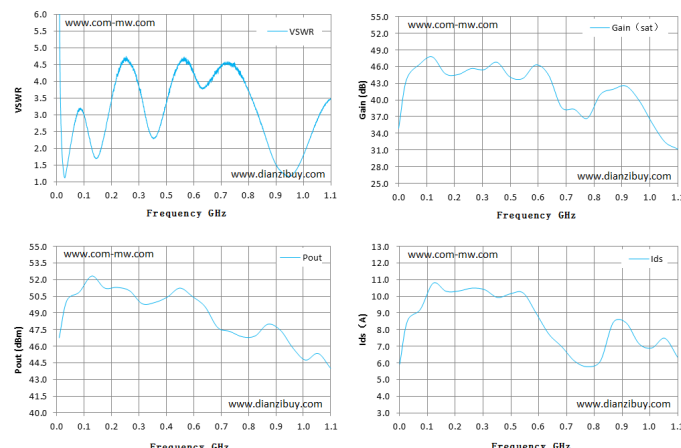
Reference picture



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;

长期工作, 产品温度<40°C;

Typical test data

F (GHz)	0.0 2	0.1	0.3	0.5	0.6	0.8	1
Input VSWR	11. 10	3.03	4.60	4.52	3.7 8	3.3 0	1.9 5
Pin (dBm) (sat)	11. 88	4.49	5.37	7.38	5.1 0	5.9 6	8.8 8
Pout (SAT) (dBm)	46. 76	50.8 7	51.0 0	51.2 4	49. 57	46. 93	44. 75
Pout (SAT) (W)	47. 42	122. 17	125. 89	133. 04	90. 57	49. 31	29. 85
Ids (A)	5.9 3	9.21	10.4 9	10.2 0	7.7 2	6.1 2	6.9 0
Gain (dB) (sat)	34. 88	46.3 8	45.6 3	43.8 6	44. 47	40. 97	35. 87
η (%)	28. 56	47.3 7	42.8 6	46.5 8	41. 90	28. 77	15. 45
2nd harmonic rejection (dBc)	9.3 0	32.6 0	20.6 0	28.3 0	40. 20	49. 80	58. 30
3rd harmonic rejection (dBc)	11. 20	11.8 9	12.5 0	14.7 0	26. 50	44. 10	44. 00
4次谐波抑制 (dBc)	16. 20	30.7 7	25.7 0	44.5 0	80. 00	75. 00	68. 00
Spurious suppression	62. 00	63.7 0	66.2 0	66.0 0	61. 00	66. 00	63. 00
ACP (dBc)	72. 60	67.8 0	67.7 0	66.9 0	65. 40	68. 00	65. 10

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