

Tech specifications

Parameters	Min	Typical	Max	Units	Note
Frequency	20	~	6000	MHz	
Gain		20		dB	Small signal gain
Input VSWR		2.2	3		
Output power		31		dBm	CW
Efficiency	13	30		%	
Harmonic Rejection		10		dBc	
Spurious suppression		50		dBc	
ACP		60		dBc	

Environmental

Connector	SMA-F
Connector material	Gold-plating
Impedance	50Ω
Surface	Conductive oxidation
Working voltage	+28±4V
Working current	0.5A
Working temperature	-40~+65°C Design assurance

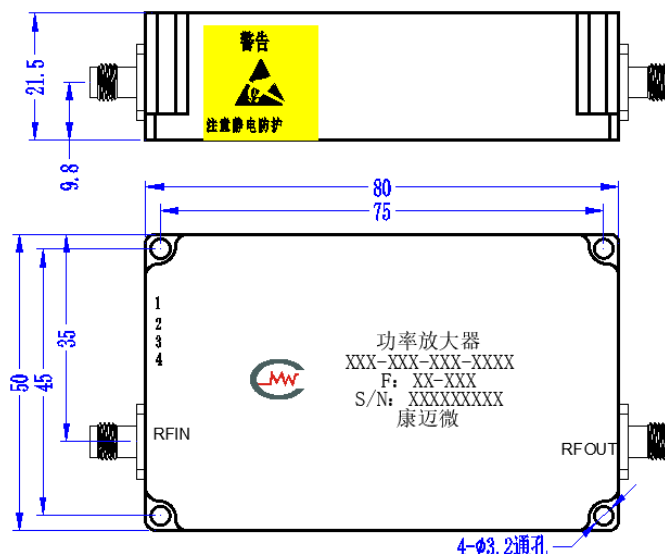
接口定义 (3.5mm-4p)

No.	definition	Note
1	+28V	电源输入
2	GND	Power supply ground
3	EN	“使能”，“0”关断，“1”导通 (1:3.3~5V)
4	V+	高电平输出，可配合EN使用，输出电压为5V左右

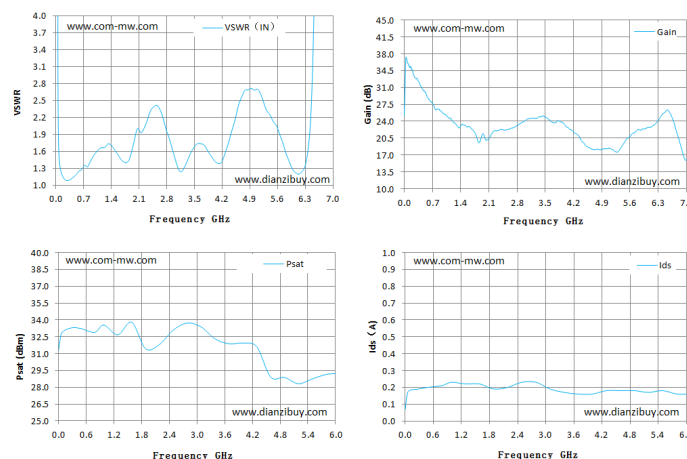
Reference picture



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;

Typical test data

F (GHz)	0.0 2	0.8	1.9	3.1	4.3	5.5	6
VSWR (IN)	1.5 2	1.2	2.1 1	1.8 1	1.2 4	1.7 1	2.4 5
Psat (dBm)	31. 21	32. 89	31. 43	33. 37	31. 61	28. 75	29. 21
Psat (W)	1.3 2	1.9 5	1.3 9	2.1 7	1.4 5	0.7 5	0.8 3
Gain(sat) (dB)	26. 62	27. 44	26. 48	28. 5	24. 46	21. 91	22. 46
Ids (A)	0.0 7	0.2 1	0.1 9	0.1 9	0.1 8	0.1 8	0.1 6
η (%)	67. 41	33. 08	26. 13	40. 84	28. 75	14. 88	18. 61
2nd harmonic rejection (dBc)	6.8 5	11. 4	3.3 4	15. 89	12. 85	18. 46	19. 1
3rd harmonic rejection (dBc)	11. 54	17. 07	16. 69	21. 6	32. 7	52. 7	44. 2
4th harmonic rejection (dBc)	18. 64	14. 4	15. 38	41. 2	47. 54	46. 5	47
杂波抑制 (dBc)	64. 45	53. 3	59. 4	60	54. 5	52	51
ACP (dBc)	72. 9	74. 2	72. 7	73	65. 4	67. 6	67. 4

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