

Product features

Broadband, high-power.

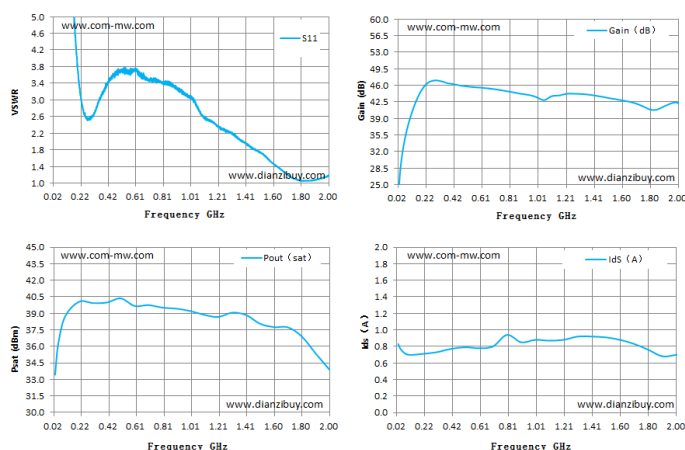
Main specifications

Frequency	50	~	1800	MHz	
Gain		42		dB	Small-signal
Flatness in band		± 3		dB	
Output power	33	37	40	dBm	
Efficiency	23	30		%	
Harmonic Rejection	8			dBc	
Spurious suppression		60		dBc	F0 $\pm$ 400kHz
ACP		65		dBc	

Other parameters

Connector	SMA-F
Impedance	50 Ω
Surface	Color conductive oxidation
Working voltage	+28 $\pm$ 4V
Working current	1A
Operation Temp.	-40~+65°C Design assurance

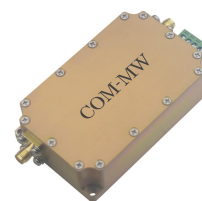
Typical test curve



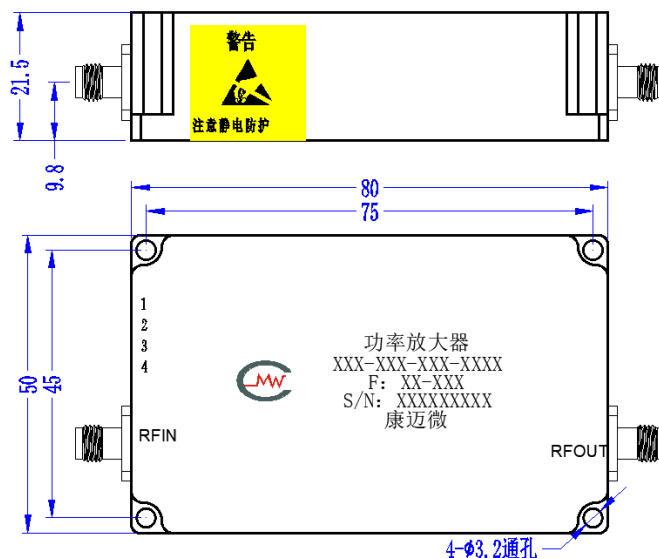
Interface Definition (3.5mm-4P)

N o.	definition	Note
1	+28V	
2	GND	
3	EN	0=off; 1=On (5V); Suspended default off
4	POSITIVE	Positive voltage output, short circuited to 3, power amplifier module normally open

Reference picture



Configuration



Note

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

Note

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

Note

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

Typical test data

Pout (SAT) (dBm)	36. 10	40. 05	40. 36	39. 52	39. 21	38. 67	38. 06	36. 90
Pout (SAT) (W)	4.0 7	10. 11	10. 86	8.9 5	8.3 3	7.3 6	6.3 9	4.8 9
Ids (A)	0.7 6	0.7 1	0.7 9	0.9 4	0.8 8	0.8 8	0.9 1	0.7 6
Gain (dB)	31. 29	45. 54	45. 77	44. 68	43. 43	44. 14	43. 32	40. 78
η (%)	19. 14	50. 88	49. 11	34. 01	33. 83	29. 87	25. 10	23. 01
2nd harmonic rejection (dBc)	12. 70	20. 40	26. 90	21. 19	29. 30	19. 80	19. 10	16. 10
3rd harmonic rejection (dBc)	12. 60	12. 10	14. 30	18. 19	18. 80	27. 00	32. 70	62. 20
4th harmonic rejection (dBc)	31. 30	27. 10	26. 10	25. 50	28. 30	37. 90	52. 30	44. 30
Spurious suppression	67. 80	61. 90	59. 40	61. 00	60. 30	60. 60	63. 50	60. 00
ACP (dBc)	72. 40	75. 10	72. 40	71. 40	68. 70	68. 80	65. 70	65. 10

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