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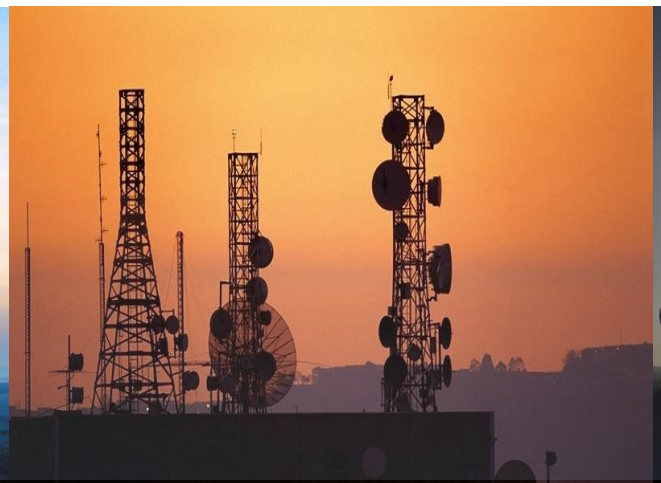
ITALIA

Solid State Power Amplifier Introduction

2020


About Us

Gtemcell group of companies was funded in 2011 by a group of experienced veterans in RF/ Microwave industry for over 20 years individually, It is dedicated to providing state-of-the-art technology and uniformly high quality microwave assemblies to customers worldwide for both communication and test markets. It is our commitment to provide customers high reliability and field proven products to fulfill or exceed customer's needs and expectation. With the effort of our highly skilled R&D team , we have developed several product lines covering frequency from DC to 50GHz.

Product Lines

- SSPAs
- High power SSPAs

Advantages

- Fast delivery from prototype : 6~8 weeks
- Cost-effective solutions
- Raw material expertise selection
- High quality and reliability
- Custom design available

Solid State Power Amplifiers

Gtemcell offers end-to-end RF & Microwave solutions for customers worldwide across a wide range of markets. The solid state power amplifier extends a broad frequency range from 0.5MHz to 50GHz and provides output power up to kilowatts. Our staff intent to use the cutting-edge technology of RF power amplification to produce rugged, power efficient, and cost-effective solutions . It is our priority to design and deliver high quality products which address customer system and business requirements.

As a professional Hi-tech manufacture, quality first is our commitment to customers. In order to make sure that our products is highly qualified, we continue to invest heavily in purchasing specialized test equipment and all our products are 100% ESS tested. The strict incoming material inspection process guarantees all used material are qualified and all our products are guaranteed for 2 years after shipped from factory.

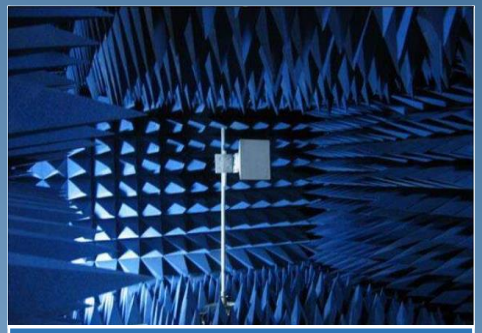
Gtemcell's SSPAs solutions cover from low power PA modules to high power 19" rack amplifiers .

Communication SSPA

Telecommunication.

Radar SSPA

Commercial & Military

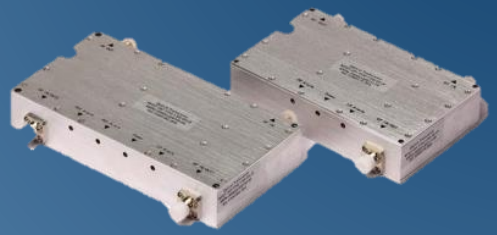


Broadband SSPA

Electronic Warfare
EMC Test
RCS Test
Radar Simulator

Up to 6GHz Amplifiers

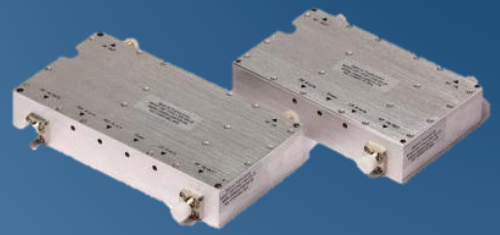
Frequency Range(MHz)	Psat(W)	Gain(dB)	Gain Flatness(dB)	Protection	Voltage(V)	Dynamic Current(A)
1~150	100	45	±2	Optional	+28	9
20~520	100	45	±2	Optional	+28	8
20~950	50	42	±2	Optional	+28	6
100~950	50	42	±2	Optional	+28	6
500~950	100	45	±2	Optional	+28	9
100~1000	100	45	±2	Optional	+40	8
500~1500	100	45	±2	Optional	+32	10
500~2500	25	40	±2	Optional	+36	3
500~2500	50	42	±2	Optional	+28	9
1100~2900	25	40	±2	Optional	+28	4
1100~2900	50	42	±2	Optional	+40	7
2500~6000	25	40	±2	Optional	+28	4
2500~6000	50	42	±2	Optional	+28	10



Note：Many more solutions available in different frequencies and power levels, please ask for inquiry.

Up to 6GHz Amplifiers

Customized Amplifiers



Frequency Range(MHz)	Psat(W)	Gain(dB)	Gain Flatness(dB)	Protection	Voltage(V)	Dynamic Current(A)
1.6~30	150	50	±1	Optional	+28	15
1.6~30	250	50	±1	Optional	+48	15
1.6~30	500	57	±2	Optional	+48	25
30~88	100	50	±1	Optional	+28	8.5
30~88	500	50	±1	Optional	+48	30
0.5~100	100	50	±1.5	Optional	+28	9.5
0.5~100	200	50	±1.5	Optional	+28	18
118~137	200	53	±0.5	Optional	+28	15
108~175	250	50	±1	Optional	+28	22
1~200	100	45	±1.5	Optional	+28	11
10~500	150	50	±1.5	Optional	+28	18
30~512	100	50	±1.5	Optional	+28	10
30~512	200	50	±1.5	Optional	+28	22
225~400	250	50	±1	Optional	+28	24
100~500	500	57	±2	Optional	+48	25
470~860	150	50	±2	Optional	+28	15
100~1000	100	50	±2	Optional	+48	9
500~1000	500	57	±2	Optional	+48	28
500~1500	200	53	±2	Optional	+32	16.5
1000~2000	100	47	±2	Optional	+28	8
1000~3000	100	50	±2	Optional	+28	16
2500~6000	50	47	±2	Optional	+28	14
4000~6000	50	47	±2	Optional	+28	9

Note：Many more solutions available in different frequencies and power levels, please ask for inquiry.

Up to 6GHz Amplifiers

2GHz~6GHz 100W

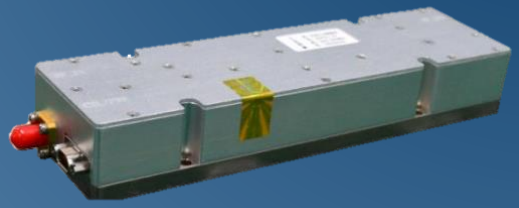
- Input signal: pulsed and CW compatible
- Application: test & measurement(-40~+50℃)
- Psat.: ≥53dBm
- Gain: ≥65dB
- Small signal gain: ≥80dB ± 1.5dB
- Power efficiency： ≥20%
- ALC accuracy: ± 0.5dB
- Second harmonic: ≥15dBc
- Control interface: local control

2.5GHz~6.5GHz 100W

- Input signal: pulsed and CW compatible
- Application: test & measurement(-40~+50℃)
- Psat.: ≥51dBm
- Gain: ≥45dB
- Small signal gain: ≥60dB ± 1.5dB
- Power efficiency: ≥20%
- ALC accuracy: ± 0.5dB
- Second harmonic: ≥40dBc
- Control interface: local control& Ethernet control&RS422 remote control

Up to 18GHz Amplifiers

Frequency Range(MHz)	Gain(dB)	Psat (W)	Power Supply (V)
2700~6200	50	50	+28
2500-6500	45	100	+28
7900~8400	45	40	+12
8000~12000	50	100	+28
8000~12000	50	200	+28
8000~12000	50	400	+28
13500~14500	50	50	+24
13750~14500	45	25	+28
13750~14500	50	40	+24
13750~15350	50	120	+28
1000~18000	65	10	+28
2000~18000	37	5	+28
6000~18000	55	50	+28
6000~18000	60	120	+28
6000~18000	60	200	+28
10000~18000	50	100	+28
10000~18000	50	200	+28
12000~18000	50	100	+28
12000~18000	50	200	+28



Note：Many more solutions available in different frequencies and power levels, please ask for inquiry.

Contact Us

GTEMCELL
Fiorenzo De Lucia
Oversea Sales
gtem.cell@gmail.com, Tel: +39 3200470064, Fax +30 0541 1641013.
Http: www.gtemcell.com
Address: 106, Ponte Str. - 37025-Santambrogio V. (VR), Italy.