

ELECTRONIC WARFARE

FORCE PROTECTION AND THREAT SIMULATORS - MANPACK, VEHICLE, FIXED SITE



Ground



Shipboard



Manpack



Airborne

Cutting edge, compact, ultra broadband, solid state power amplifiers from Empower are playing a major role in Electronic Warfare applications.

Empower's remarkable hardware and software architecture is advanced beyond any other amplifier supplier and offers break through capabilities not seen before in EW systems. Among these capabilities are Multi-domain operations where a single unit is capable of operating in Multi-Domain scenarios as a jamming, communications and radar transmitter at optimal performance with any type of modulation.



MODEL 2210

1900 - 6000 MHz, 200W CW

Ruggedized Broadband Solid State Jamming and Communications Amplifier

Empower has delivered over 30,000 RCIED jammers at production rates exceeding 1000 amplifiers per month.

Empower Systems are deployed on surface, airborne & ground tactical EW platforms.



www.EmpowerRF.com

Rev. 2.0/ 11-13-2018

FEATURES AND BENEFITS

- ▶▶ Built in EW modulation modes
 - ▶ Frequency hopping
 - ▶ QAM-xx, OFDM
 - ▶ Multi-carrier
 - ▶ Pulse, AM, FM, PSK
 - ▶ Barrage
 - ▶ Broadband noise
 - ▶ Upgradable to future modulation standards
 - ▶ User defined pre-set jamming modes
- ▶▶ Unprecedented size, weight and power reduction (SWaP), superior to anything in the market at similar frequencies and power levels
- ▶▶ Inherently rugged design with a patented architecture that includes an internal "connector-less" RF path (an industry first)
- ▶▶ SW Architecture for command, control, and remote diagnostics
- ▶▶ Automatic Level Control (ALC) and Automatic Gain Control (AGC) available for simplifying system integration and reducing overall cost.
- ▶▶ Environmental (MIL-STD-810) and EMI (MIL-STD-461) Compliant
- ▶▶ VH F/UHF/L/S/C Band Tactical Command, Control and Communications
- ▶▶ Electronic Countermeasures ECM and ECCM Capability for denial and disruption of information
- ▶▶ Smallest and Lightest Transmitter
- ▶▶ Electronic VSWR and Graceful power Degradation
- ▶▶ Monitoring and Control via Web Browser through TCP/IP and/or front panel touchscreen display

HF to X-Band

See list of products on other side

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MODULES 28VDC

SKU	Start (MHz)	Stop (MHz)	Pout (Watt)	Gain (dB)	Size (Inch)
1163	20	520	125	54	7.0x4.0x1.2
1189	500	2500	100	50	7.4x3.6x1.06
1208	500	2700	100	50	8.2x3.6x1.06
1164	800	3000	50	50	6.4x3.4x1.1
1212	2000	6000	50	61	7.0x4.0x1.1
1131	2500	6000	35	48	6.9x3.6x1.1
1191	2500	6000	100	60	8.0x6.5x1.0

MODULES 48VDC

SKU	Start (MHz)	Stop (MHz)	Pout (Watt)	Gain (dB)	Size (Inch)
1213	1	30	50	53	7.0x4.0x1.12
1193	20	1000	100	53	7.0x4.0x1.2
1211	500	2500	100	57	7.0x4.0x1.1
1219	600	6000	30	61	7.0x4.0x1.1
1199	1000	3000	100	61	7.0x4.0x1.1
1197	2000	6000	50	61	7.0 x 4.0 x 1.1

SYSTEMS

SKU	Start (MHz)	Stop (MHz)	Pout (Watt)	Gain (dB)	Size
2203	1	30	1000	60	R5U
2178	240	450	2000	63	R5U+R3U+R3U
2173	20	500	500	57	R3U
2192	20	1000	250	54	R3U
2162	20	1000	1000	63	R5U
2175	80	1000	500	60	R3U
2210	150	450	12000 Pulse	73	R19U
2199	500	2500	200	53	R5U
2202	500	2500	1000	60	R8U
2223	600	6000	150	53	R5U
2180	1000	2500	2000	64	R5U+R3U
2193	1000	3000	100	49	R3U
2194	1000	3000	250	54	R3U
2170	1000	3000	1000	63	R5U
2215	1900	6000	200	53	R5U
2214	2900	3500	8000 Pulse	70	R5U+R5U+R3U+R1U
2197	2000	6000	80	49	R3U
2211	2700	3100	1200	62	R3U
2217	5200	5900	8000 Pulse	70	R17U
2221	9000	10000	10000 Pulse	70	R18U

? Need 100KW or more? For Very High Power Custom Solid State Amplifiers, We Have a Standard Solution

Our engineers have designed a standard electromechanical and software architecture that has commonality across power levels and bandwidths that shorten design and manufacturing cycles.

FEATURES

- ▶ Hot Swappable, Liquid or Air Cooled Configurations
- ▶ 0dbm Input, No External Driver Amplifier Required
- ▶ Redundancy at the System Level
- ▶ User Configurable Operating Modes
- ▶ Electronic VSWR protection with Graceful Power Degradation
- ▶ Zero Point of Failure Configurations Available
- ▶ System Wide Performance Monitoring and Sensing through Local, LAN, and Browser GUI
- ▶ Installation Service Available
- ▶ 3 Year Warranty

