

High Power Amplifier

Product Name : RCA140155H54A, Code Name :

Doc. Name : Preliminary Spec.

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| <p style="text-align: center;">Preliminary Specification for RCA140155H54A</p> |
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| Created | Printed | Document Number | Revision | Manufacturer |
|--------------------------------------|----------|-----------------|----------|-----------------------|
| 2017/1/2 | 2017/8/7 | | | RFcore Co.,Ltd |
| File : RCA140155H54A Short Spec.docx | | | | |

The Specifications is subject to change before finalization

Customer Service: Tel. 82-31-708-7575

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<http://www.rfcore.com>

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| ELECTRICAL SPECIFICATIONS | | @ 50 Ohms load, Ta = 20 °C |
|-------------------------------|--|---|
| Parameter | Specification | Remark |
| Frequency Range | 14.0 ~ 15.5 GHz | |
| Pulsed Saturated Output Power | 240W Typical | Maximum PW : 20us Maximum Duty : 20% |
| Small Signal Gain | 68dB Typical | Input = -40dBm |
| Gain Flatness | ± 1.3dB | Input = -40dBm |
| Input Power for no damage | -8dBm max | |
| Input VSWR | 1.5 : 1 typical | |
| AC Input Voltage | 220V, 50/60Hz | |
| AC Power Consumption | 330 @ 240W Pulsed output | 20% Duty, Include power consumption of radiating fans |
| RF Input Signal Format | Pulse Maximum PW : 20us Maximum Duty : 20% | |

| I/O Interface | | |
|------------------|--------------------------|-----------------------|
| Parameter | Description | Remark |
| D-SUB 9pin Male | 2. RS232 Receive Data | remote control |
| | 3. RS232 Transmit Data | |
| | 5. Ground | |
| BNC Male | 1, 4, 6, 7, 8, 9 : N.C | |
| | TTL pulse control signal | Active High |
| LCD | RF Output Power monitor | |
| | DC current monitor | Each internal PA MMIC |
| | Temperature monitor | |
| Keypad | Frequency selection | |
| Function Key | Enable/Disable | Blue : Enable |
| AC on/off Switch | AC on/off | Up : On |

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ENVIRONMENTAL SPECIFICATIONS

| Parameter | Specification | Remark |
|-----------------------|---------------|--------|
| Operating Temperature | -20 ~ +50 °C | |

MECHANICAL SPECIFICATIONS

| Parameter | Specification | Remark |
|-------------------------|----------------------|--------|
| Dimension | 230 x 306 x 294 | |
| Weight | 10kg(TBD) | |
| RF Input Connector | SMA Female | |
| RF Output Connector | SMA Female | |
| I/O Interface Connector | D-SUB Male, BNC Male | |
| AC Input Connector | IEC 60320 C14 | |
| Cooling | Forced Air | |

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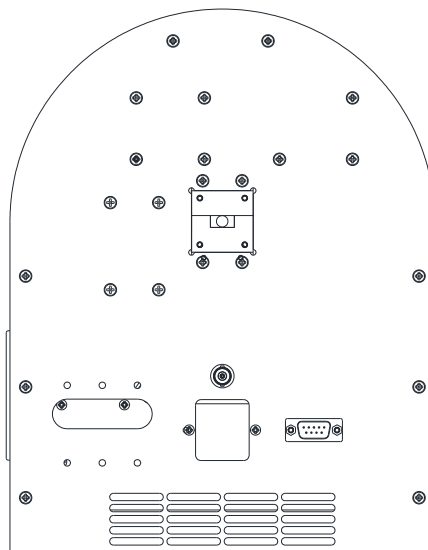
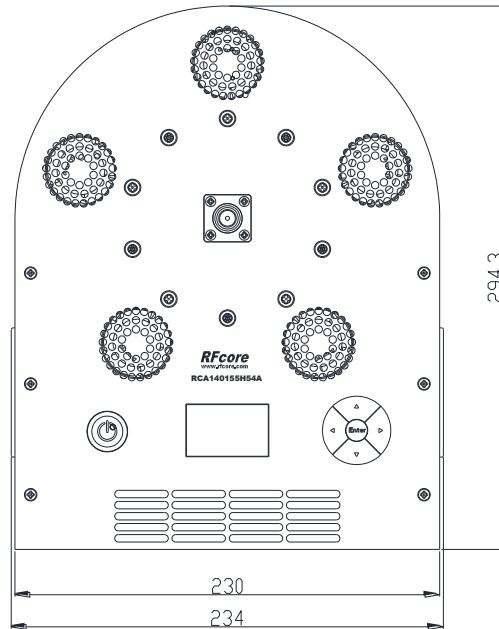
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MECHANICAL DRAWING



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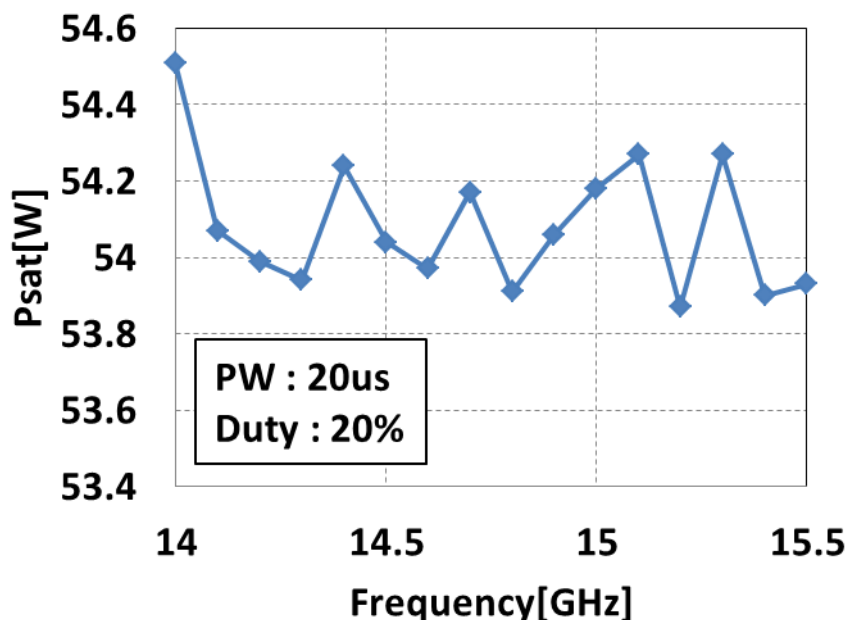
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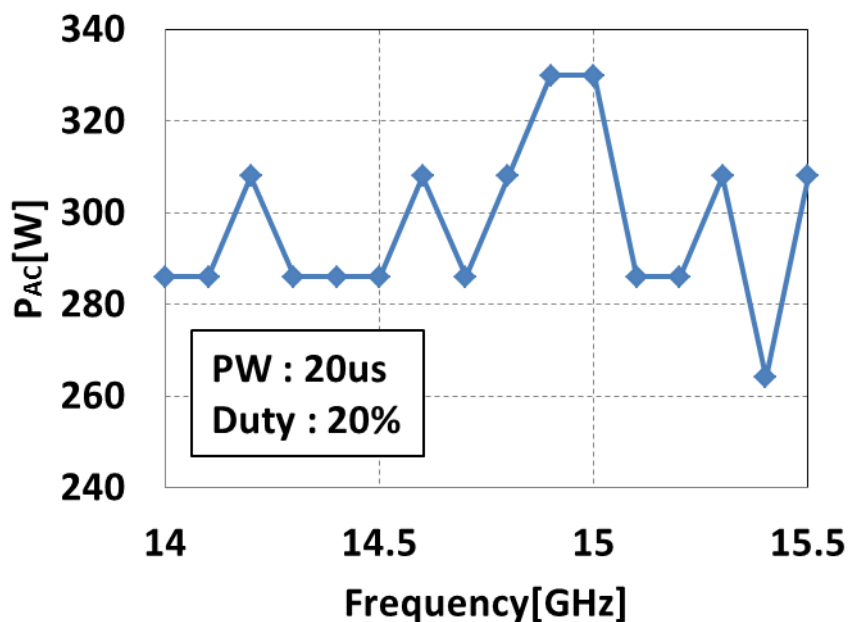
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Typical Performance Curve

Output Power



Power Consumption at Psat



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