

# Broadband High Power Amplifier

Product Name : RCA0722H50S, Code Name : C8Y3SD3EN50

Doc. Name : Preliminary Short Spec.

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| <p style="text-align: center;"><b>Preliminary Short Specification</b><br/>for<br/><b>RCA0722H50S</b></p> |
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| Created                            | Printed   | Document Number | Revision | Manufacturer          |
|------------------------------------|-----------|-----------------|----------|-----------------------|
| 2011/5/31                          | 2017/1/12 |                 | B        | <b>RFcore co.,Ltd</b> |
| File : RCA0722H50S Short Spec.docx |           |                 |          |                       |

*The Specifications is subject to change before finalization*

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

Email: [sales@rfcore.com](mailto:sales@rfcore.com)

<http://www.rfcore.com>

# Broadband High Power Amplifier

Product Name : RCA0722H50S, Code Name : C8Y3SD3EN50

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| ELECTRICAL SPECIFICATIONS |  | @ 50 Ohms load, 28 Vdc, Tc ≅ 35 °C  |
|---------------------------|--|---|
| Parameter                 | Specification  | Remark  |
| Frequency Range           | 700 ~ 2200 MHz   |   |
| Saturated Output Power    | 100W min.  |   |
| Small Signal Gain         | 50 dB min.   | Input Power = - 15 dBm  |
| Gain Flatness             | Peak to Peak 6 dB  | Input Power = - 15 dBm  |
| Maximum Input Power       | 10 dBm max.  |   |
| Input VSWR                | 2 : 1 max.   |   |
| DC Input Voltage          | 28 ± 1 V   |   |
| Current Consumption       | 15A max.   | @ Pout = 100 W  |
| RF Input Signal Format    | CW   |   |
| I/O Map(D-Sub 9Pin Male)  | <ol style="list-style-type: none"> <li>1. Enable(Active Low)</li> <li>2. Forward Power Monitor</li> <li>3. Reserved</li> <li>4. Reserved</li> <li>5. Temperature Monitor</li> <li>6. GND</li> <li>7. Do not Connect</li> <li>8. Do not Connect</li> <li>9. Do not Connect</li> </ol> | <p>Pulled up @ 5 V with 10 kohm</p> <p>Vpin2 is Output voltage of diode detector. It has non-log slope characteristic.</p> <p>Should be connected to GND.</p> <p>VT = (0.02 V * Temp°C) + 1 V</p> |

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| ENVIRONMENTAL SPECIFICATIONS |               |        |
|------------------------------|---------------|--------|
| Parameter                    | Specification | Remark |
| Operating Case Temperature   | -20 ~ 60 °C   |        |
| Storage Temperature          | -40 ~ 85 °C   |        |

| MECHANICAL SPECIFICATIONS |                                  |        |
|---------------------------|----------------------------------|--------|
| Parameter                 | Specification                    | Remark |
| Dimension                 | 225 * 180 * 25 mm                |        |
| Input / Output Connector  | SMA 2H Female/SMA 4H Female      |        |
| DC Connector              | 3W3P(A1: +28V, A2: GND, A3: N.C) |        |
| Control Connector         | D-Sub 9Pin Male                  |        |
| Cooling                   | Adequate Heat-sink required      |        |

|                                    |           |                 |          |                       |
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