

# Preliminary specification of 1000-3000MHz 25Watts Amplifier

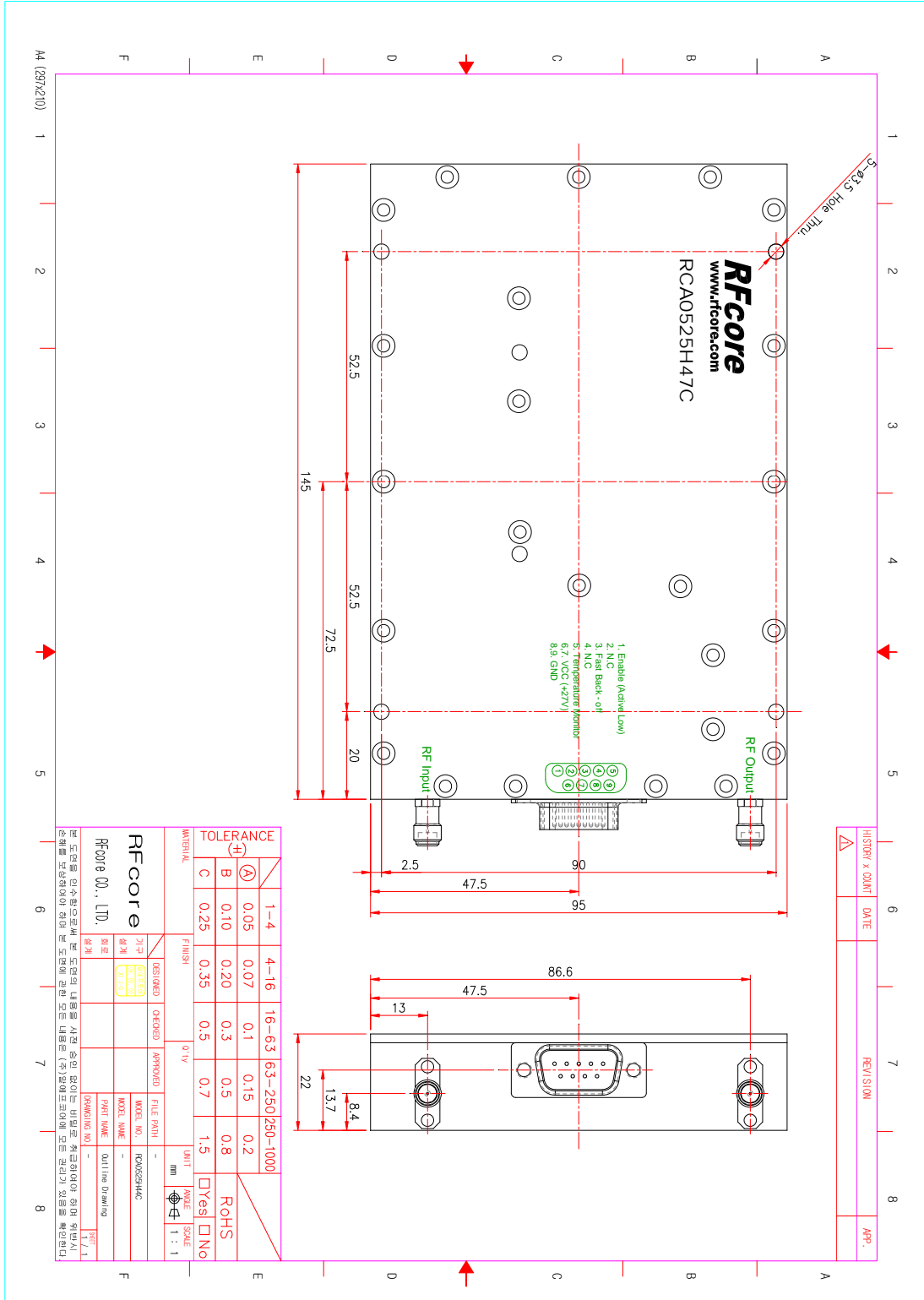
## RCA10-30H44A

| Item                                 | Specification   | Remark   |
|--------------------------------------|---|--|
| Frequency Range                      | 1000 ~ 3000 MHz   |  |
| Power Output (Psat)                  | 44dBm(CW)   | Tcase ≐ 35℃  |
| Gain nominal                         | 48dB Typical  | Small Signal Gain<br>(input = -15dBm),<br>Tcase ≐ 35℃    |
| Gain Flatness                        | Peak to Peak 6dB[TBD]   | Small Signal Gain<br>(input = -15dBm),<br>Over Freq Band |
| Input VSWR                           | Less than 2.0:1   |  |
| DC Current consumption               | 5A Max  | Tcase ≐ 35℃  |
| DC Voltage                           | 27 ± 1.0Vdc   |  |
| SIZE (W *D*H mm)                     | 95 x 145 x 22 mm  |  |
| Input / Output Connector             | SMA Female  |  |
| Operating Case Temperature           | -20℃ ~ +70℃   |  |
| I/O Map (D-Sub 9Pin M)<br>(Optional) | 1. Enable (Enable = 0V, Disable = 5V) pulled-up @ 5V with 10k ohm |  |
|                                      | 2. Do not connect   |  |
|                                      | 3. Fast Back-off, 5V(Back-off by 20~30dB), 0V(Normal Gain)        |  |
|                                      | 4. Do not connect   |  |
|                                      | 5. Temperature Monitor VT = (0.02V * Temp℃)+1V                    |  |
|                                      | 6,7 Vcc   |  |
|                                      | 8,9 GND   |  |

# Mechanical Drawing

Dimension (WXDXH) : 90(W) \* 145(D) \* 22(H)mm

Model name :  
RCA10-30H44A



| HISTORY x QUANT | DATE | REVISION | APP. |
|-----------------|------|----------|------|
|                 |      |          |      |

| TOLERANCE (±) |      | FINISH |     |
|---------------|------|--------|-----|
| 1-4           | 0.05 | 0.15   | 0.2 |
| 5-16          | 0.10 | 0.3    | 0.5 |
| 17-63         | 0.20 | 0.5    | 0.7 |
| 64-250        | 0.35 | 0.7    | 1.5 |
| 250-1000      | 0.5  | 1.5    | 3.0 |

|                  |            |           |           |
|------------------|------------|-----------|-----------|
| Rfcore Co., Ltd. |            | Rfcore    |           |
| DESIGNED         | CHECKED    | APPROVED  | FILE PATH |
| DATE             | DATE       | DATE      | FILE NAME |
| MODEL NO.        | MODEL NAME | PART NAME | DATE      |
| REVISION NO.     | REVISION   | REVISION  | REVISION  |

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