

# Specification of 942-960MHz 100W RFcore MCPA

Model Name : MCPA940BA100

| Parameter                  | Specification  | Remark                     |
|----------------------------|--|----------------------------|
| Frequency Range            | 942 ~ 960MHz   |                            |
| Power Output (Average)     | 50dBm (Avg. power 100W)                                  |                            |
| Gain                       | 58 ± 0.5 dB  | 58.05dB                    |
| Gain Flatness              | ±1.0dB   | 0.9dB                      |
| Gain Stability             | ± 1.0dB  |                            |
| Intermodulation Distortion | < -47dBc @ 47dBm/tone<br>2Tones, Δfreq = 600KHz          |                            |
| In/Out VSWR                | Less than 1.4:1  | S11-> 1.32:1, S22-> 1.04:1 |
| DC Input                   | 27 ± 1 V DC  |                            |
| DC Current                 | 30A MAX  | 27.6A(Pout =50.8dBm)       |
| SIZE (W *D*H mm)           | 330 * 330 *56 mm   |                            |
| In/Out Connector           | In : SMA Female Output : N TYPE Female                   |                            |
| Operation Temperature      | 0℃ ~ +60℃  |                            |
| I/O Map<br>(D-Sub 9Pin F)  | 1: MCPA Enable/Disable                                   |                            |
|                            | 2: GND   |                            |
|                            | 3: MCPA Power Monitor                                    |                            |
|                            | 4: Temperature Monitor                                   |                            |
|                            | 5: MCPA Status   |                            |
|                            | 6: Reflected Power Monitor                               |                            |
|                            | 7: Over Temperature Alarm Shutdown<br>@ 91℃, Restart 60℃ |                            |
|                            | 8: Output VSWR Alarm @ 3.0 :1                            |                            |
|                            | 9: Output Over Power Alarm & Shutdown<br>@53 +/- 0.5 dBm |                            |

