

# SPECIFICATION

## 1. Electrical Specification

MODEL : ATA21-HM39A

Parameter	Specification	Remark
Frequency Range	2130MHz to 2150MHz	BW:20MHz
RF Output Power	39dBm Avg.	
Spectrum Emission Mask	PER 3GPP TS25.141	@+ 39dBm
ACLR (WCDMA 4FA)	<-48dBc@±5MHz <-53dBc@±10MHz	
RF Gain	59dB ±1dB	
Gain Flatness	±0.5dB / BW: 20MHz	
Gain Stability	±1dB	Over Temp
2nd Harmonics	≤ -45dBc	
In/Output VSWR	≤ 1.5:1	
Output Power ALC	10dB Min @ 40dBm ±0.5dB	
Output Protection	Over Temp & Power , Output Mismatch	
DC Input Power	+ 27 ±1Vdc	
DC Current	3.5A Max @39dBm	Typ 3.0A
Operating Temperature/Humidity	-10℃ to + 60℃ / 20% to 80%	
Storage Temperature/Humidity	-30℃ to + 85℃ / 5% to 95%	
RF In/Output Port	SMA Female	
DC / Interface Connector	D-Sub 9Pin Male	
Size (W x D x H mm)	120 x 100 x 22 mm	

## 2. Alarm Specification

Parameter	Shut Down	Auto Recovery	Descriptions
Over Power	■	□	Shut Down : 42dBm (±0.5dB)
VSWR	■	□	6dB~8dB @ Po= 25dBm 이상
High Temp	■	■	Shut Down 90℃ 이상 / Recovery 80℃ 이하

## 3. Pin Description

Pin No	Description	Specification	Remark
1	Forward Power Monitor	4V(±0.1V) @ 39.0dBm	
2	Over Power Alarm	Shut Down : 42dBm (±0.5dB)	
3	VSWR Alarm	6dB~8dB @ Po= 25dBm 이상	
4	Temperature Monitor	Vo = (Temp / 100) + 500mV	
5	Over Temp Alarm	Shut Down 90℃ 이상 / Recovery 80℃ 이하	
6~9	GND		
10	Enable / Disable	Low : Enable / Open & High : Disable	
11~15	VCC	+ 27Vdc	

## 4. Mechanical Drawing

