

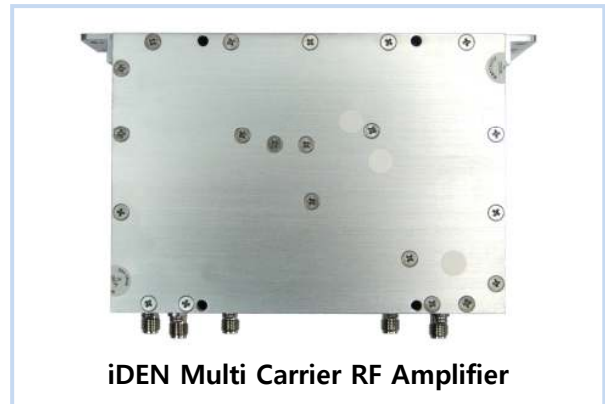
## Product Features

- High power RF amplifier
- Solid State power amplifier
- High linearity and high efficiency
- 50 ohms input / output impedance

## Application

- iDEN Repeater

## Electrical Specification



Parameter	Specification	Remark
Frequency Range	DL800 851~869MHz	
	DL900 935~940MHz	
Output Power	+17dBm	
Gain	27dB±1dB	
Gain Flatness	0.5dB peak to peak	
Gain Variation Over Temp.	±1dB max.	
ACLR	±25kHz< -49dBc	iDEN 8 Carrier
	±50kHz< -54dBc	
Input VSWR	1.5:1 max	
Output VSWR	1.5:1 max	
DC Current Consumption	+7V 1.0A max	
	+27V 2.0A max	
Enable	TTL Low	
Output Detect	+1.8V@Po=+17dBm	0.05V/dB
Couple Port	20dB	900MHz only



### Environmental Specification

Parameter	Specification	Remark
Operating Temperature	-20°C~+60°C	
Storage Temperature	-30°C~+80°C	
Relative Humidity	0%~90%	Non-condensing

### Mechanical Specification

Physical Dimension : 125mm X 90mm X 38mm

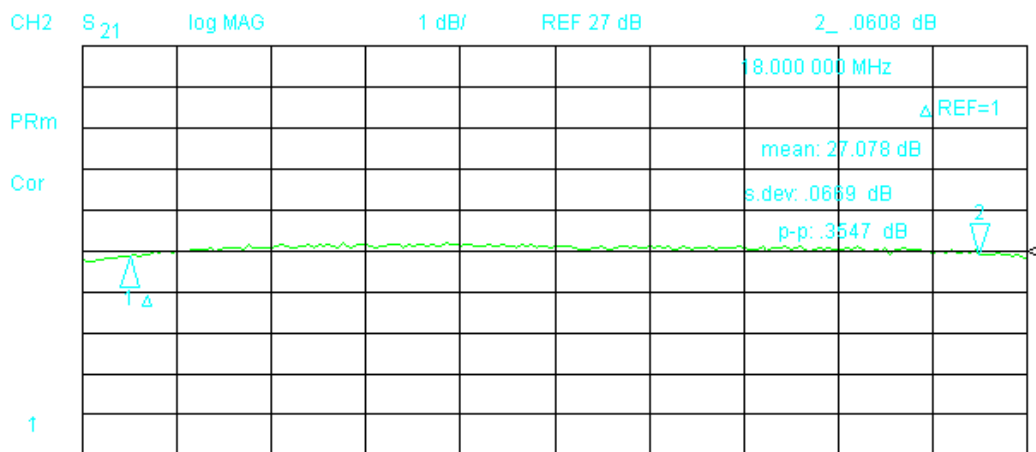
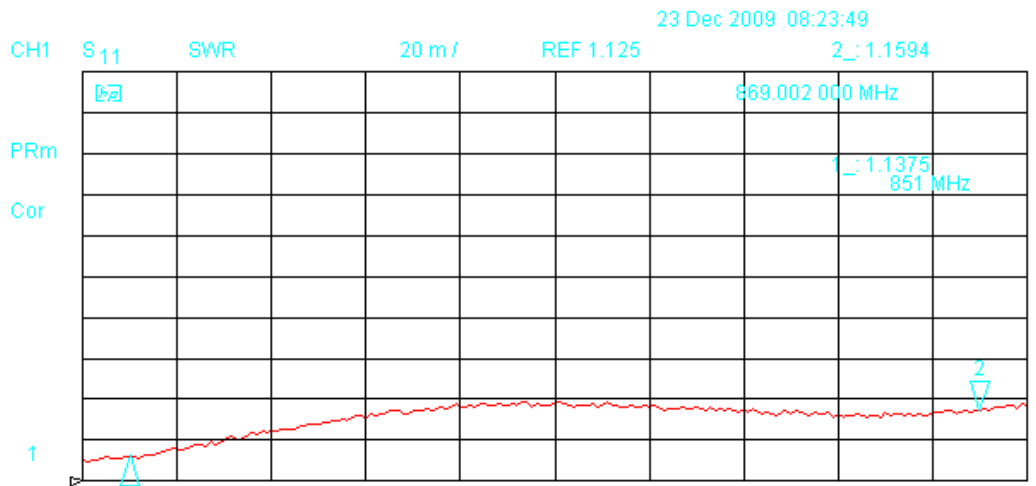
### Pin Assignment

I/O Interface (SMAW250-11P)	1. Temp. SDA	I2C
	2. Temp. SCL	I2C
	3. 800MHz Fault Alarm	TTL High
	4. 900MHz Fault Alarm	TTL High
	5. 800MHz Power Monitor	+1.8V@Po=+17dBm
	6. 900MHz Power Monitor	+1.8V@Po=+17dBm
	7. 800MHz VSWR Alarm	Over 4:1@Po=+12dBm
	8. 900MHz VSWR Alarm	Over 4:1@Po=+12dBm
	9. 800MHz Enable	TTL Low
	10. 900MHz Enable	TTL Low
	11. GND	
I/O Interface (LAB1143-04)	1. VCC	+27V
	2. GND	
	3. +7V	
	4. GND	



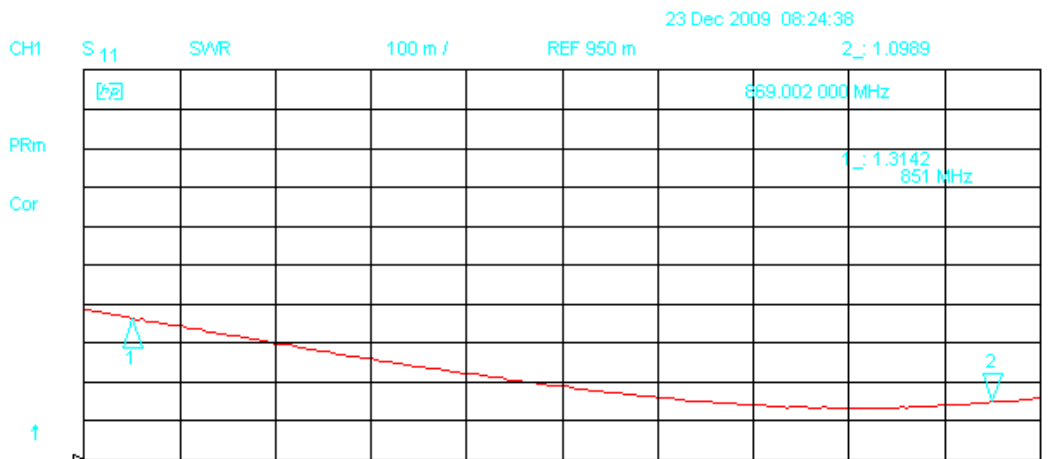
### Electrical Test Data

800MHz Gain & VSWR



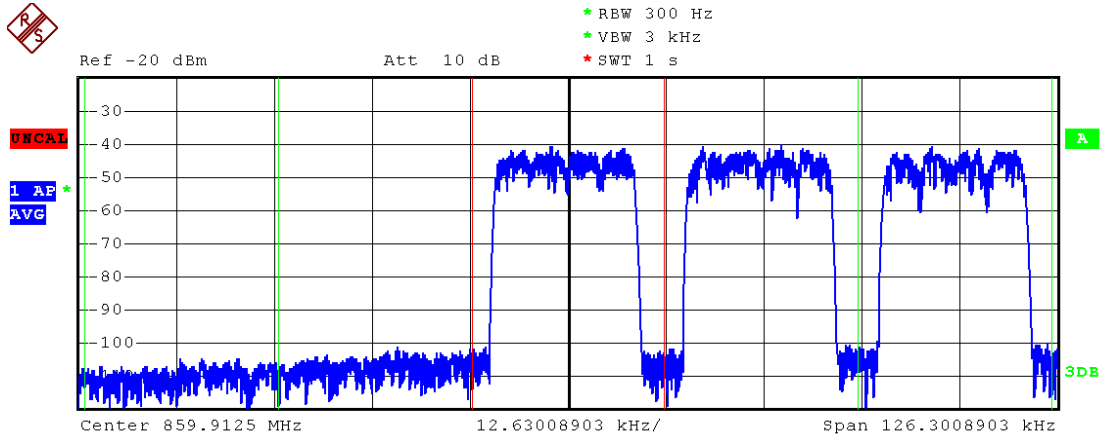
CENTER 860.000 000 MHz

SPAN 20.000 000 MHz

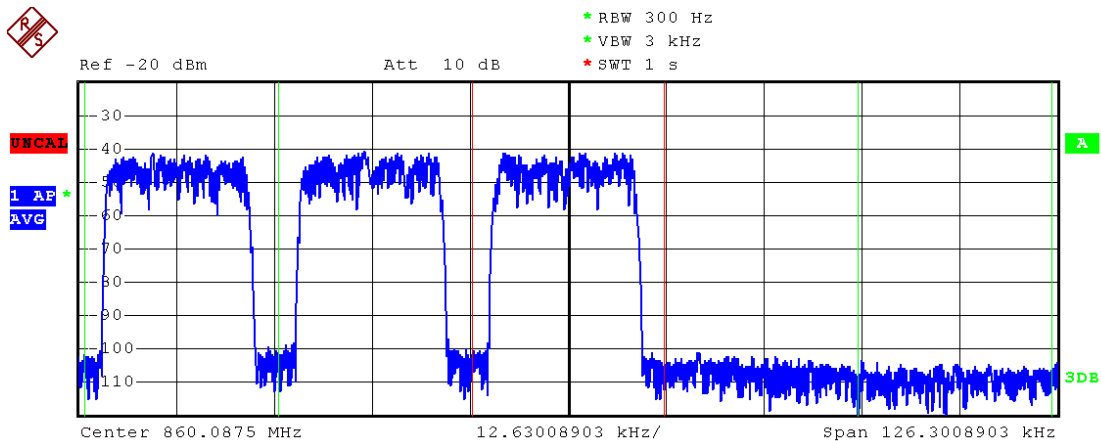




800MHz ACLR



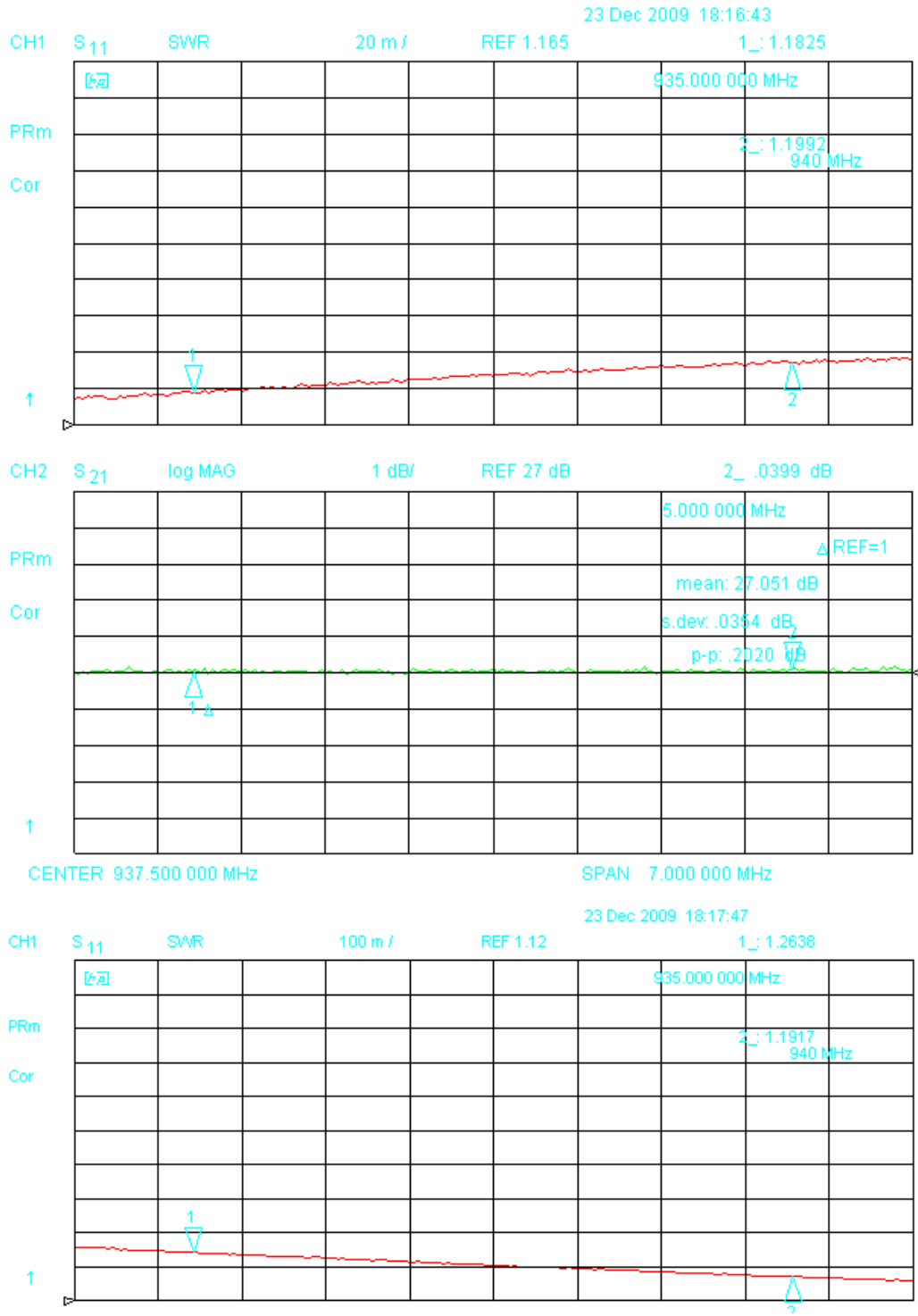
Tx Channel			
Bandwidth	25 kHz	Power	-27.91 dBm
Adjacent Channel			
Bandwidth	25 kHz	Lower	-59.68 dB
Spacing	25 kHz	Upper	0.03 dB
Alternate Channel			
Bandwidth	25 kHz	Lower	-62.58 dB
Spacing	50 kHz	Upper	-0.41 dB



Tx Channel			
Bandwidth	25 kHz	Power	-28.06 dBm
Adjacent Channel			
Bandwidth	25 kHz	Lower	0.08 dB
Spacing	25 kHz	Upper	-59.26 dB
Alternate Channel			
Bandwidth	25 kHz	Lower	-0.52 dB
Spacing	50 kHz	Upper	-61.32 dB

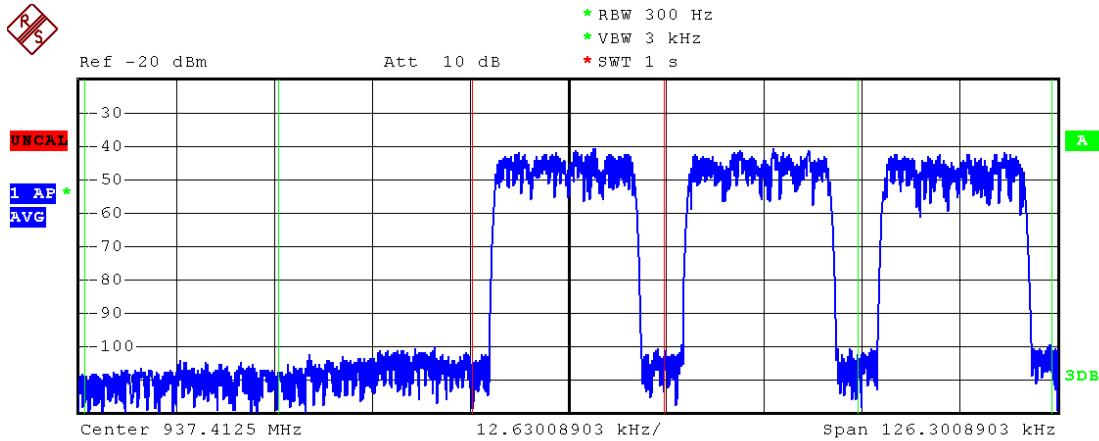


900MHz Gain & VSWR

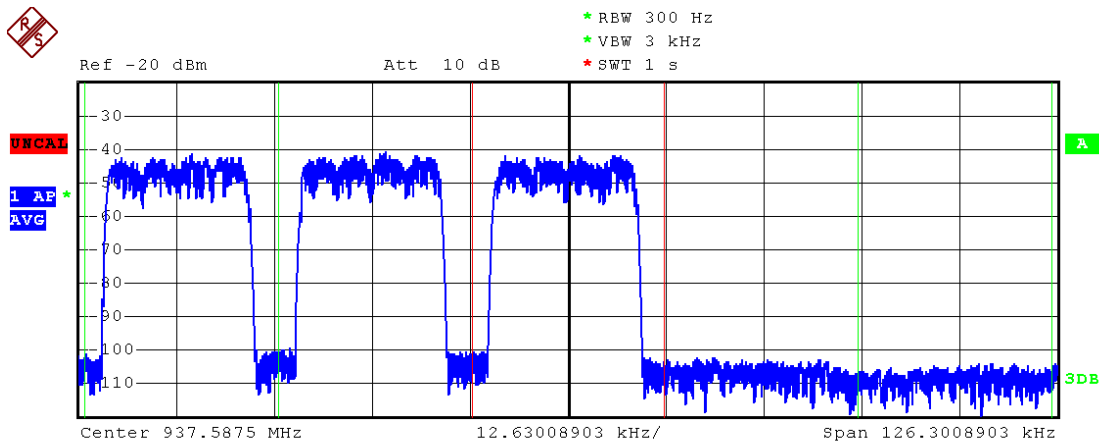




900MHz ACLR



Tx Channel			
Bandwidth	25 kHz	Power	-28.11 dBm
Adjacent Channel			
Bandwidth	25 kHz	Lower	-58.66 dB
Spacing	25 kHz	Upper	-0.09 dB
Alternate Channel			
Bandwidth	25 kHz	Lower	-62.20 dB
Spacing	50 kHz	Upper	-0.83 dB



Tx Channel			
Bandwidth	25 kHz	Power	-28.56 dBm
Adjacent Channel			
Bandwidth	25 kHz	Lower	0.46 dB
Spacing	25 kHz	Upper	-58.89 dB
Alternate Channel			
Bandwidth	25 kHz	Lower	-0.03 dB
Spacing	50 kHz	Upper	-60.54 dB