



NEXT GENERATION RESEARCH AND DEVELOPMENT WITH THE NON RADIATIVE DIELECTRIC TECHNOLOGY

KOREAN

CUSTOMER : NRD Corp. SALES ORDER NO. : _____MODEL NUMBER : NRD60LNA-1B SERIAL NUMBER : LV021120-16

Parameter	Measured Data		
	MIN	TYPICAL	MAX
Frequency [GHz]		60	
SS Gain [dB]		18.3	
P1dB [dBm]		11.5	
Noise Figure [dB]		4.8	
Input Return Loss [dB]		-2.9	
Output Return Loss [dB]		-13.6	
Operating Voltage [V]		1.5	
Operating Current [mA]		72	

- Note : 1. All data taken at 25deg.C unless otherwise specified.
2. The operating current is tested at P1dB, unless otherwise specified.

Tested by : *[Signature]*DATA : 2002. 11. 25Q.A : *[Signature]*DATA : 2002. 11. 25

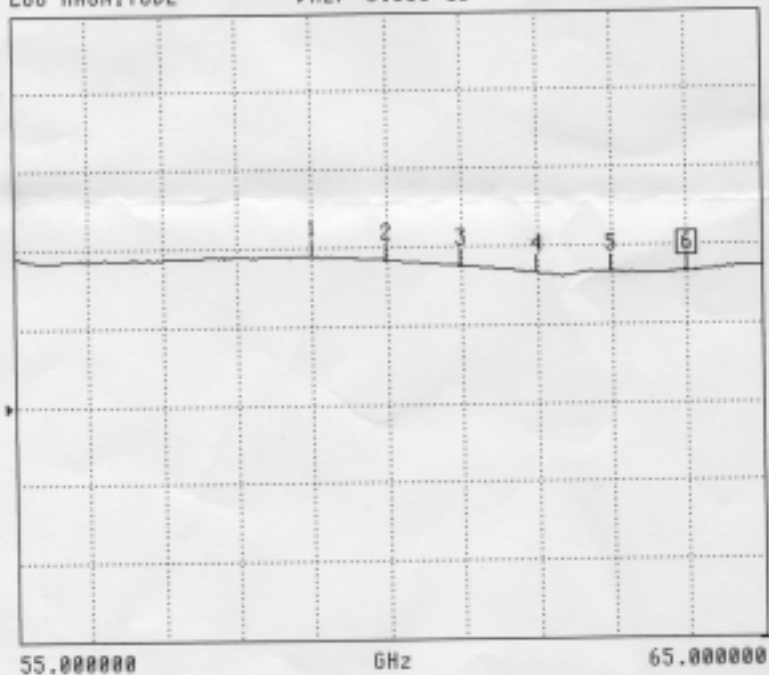
MODEL: *NRD to LWA 21B* DATE: 11/27/2002 10:52 Page 1
 DEVICE ID: *LV021120-16* OPERATOR: *Choi, Hyung Dong*

START: 55.000000 GHz GATE START: - ERROR CORR: 12-TERM
 STOP: 65.000000 GHz GATE STOP: - AVERAGING: 1 PT
 STEP: 0.025000 GHz GATE: - IF BNDWIDTH: 1 KHz
 WINDOW: -

-----CH3-----
 PARAMETER: -S21-
 NORMALIZATION: OFF
 REFERENCE PLANE: 0.0000 mm
 SMOOTHING: 0.0 PERCENT
 DELAY APERTURE: -

S21 FORWARD TRANSMISSION

LOG MAGNITUDE REF=0.000 dB 10.000 dB/DIV



CH 3 - S21
 REFERENCE PLANE
 0.0000 mm

MARKER 6
 64.000000 GHz
 16.632 dB

MARKER TO MAX
 MARKER TO MIN

- 1 59.000000 GHz
18.811 dB
- 2 60.000000 GHz
18.348 dB
- 3 61.000000 GHz
17.529 dB
- 4 62.000000 GHz
16.503 dB
- 5 63.000000 GHz
16.558 dB

MARKER READOUT
 FUNCTIONS

37397A

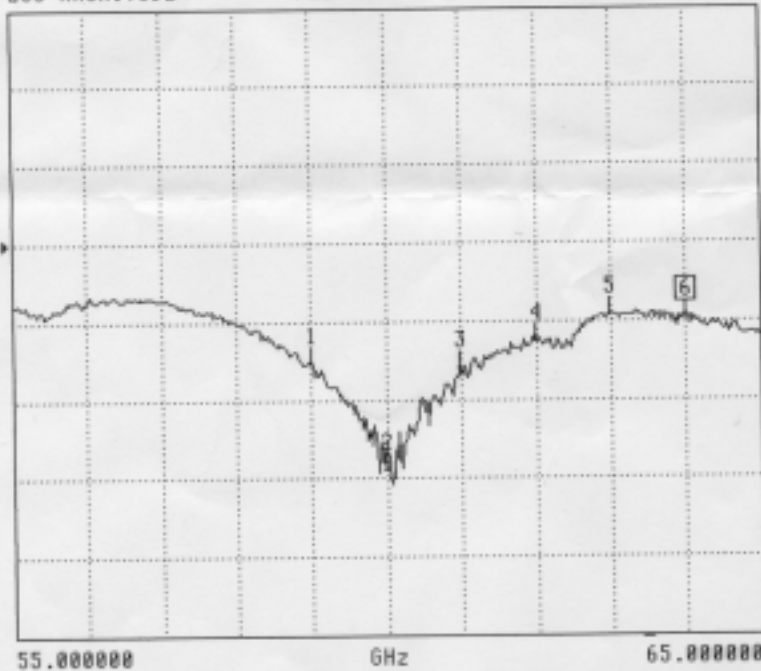
MODEL: NR060LNA-18
DEVICE ID: LU021120-16DATE: 11/27/2002 10:53
OPERATOR: Choi, Hyung Dong

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START: 55.000000 GHz
STOP: 65.000000 GHz
STEP: 0.025000 GHzGATE START: -
GATE STOP: -
GATE: -
WINDOW: -ERROR CORR: 12-TERM
AVERAGING: 1 PT
IF BNDWDTH: 1 KHzPARAMETER:
NORMALIZATION:
REFERENCE PLANE:
SMOOTHING:
DELAY APERTURE:-----CH2-----
-S11-
OFF
0.0000 mm
0.0 PERCENT
-

S11 FORWARD REFLECTION

LOG MAGNITUDE REF = 0.000 dB 10.000 dB/DIV

CH 2 - S11
REFERENCE PLANE
0.0000 mm▶ MARKER 6
64.000000 GHz
-9.767 dBMARKER TO MAX
MARKER TO MIN

- 1 59.000000 GHz
-15.252 dB
- 2 60.000000 GHz
-26.900 dB
- 3 61.000000 GHz
-15.915 dB
- 4 62.000000 GHz
-12.649 dB
- 5 63.000000 GHz
-9.312 dB

MARKER READOUT
FUNCTIONS

37397A

MODEL: NR0601A-1B
DEVICE ID: LV02/120-16

DATE: 11/27/2002 10:54
OPERATOR: Choi, Myung Dong

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START: 55.000000 GHz
STOP: 65.000000 GHz
STEP: 0.025000 GHz

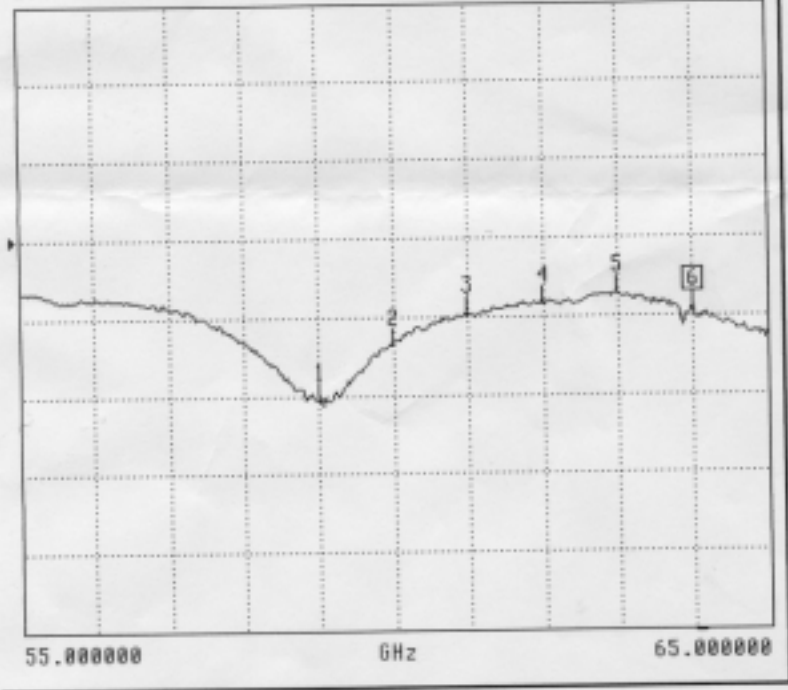
GATE START: -
GATE STOP: -
GATE: -
WINDOW: -

ERROR CORR: 12-TERM
AVERAGING: 1 PT
IF BNDWDTH: 1 KHz

PARAMETER: -CH4-
NORMALIZATION: -S22-
REFERENCE PLANE: OFF
SMOOTHING: 0.0000 mm
DELAY APERTURE: 0.0 PERCENT

S22 REVERSE REFLECTION

LOG MAGNITUDE REF=-0.000 dB 10.000 dB/DIV



CH 4 - S22
REFERENCE PLANE
0.0000 mm

MARKER 6
64.000000 GHz
-9.822 dB

MARKER TO MAX
MARKER TO MIN

- 1 59.000000 GHz
-28.623 dB
- 2 60.000000 GHz
-13.625 dB
- 3 61.000000 GHz
-9.618 dB
- 4 62.000000 GHz
-8.397 dB
- 5 63.000000 GHz
-7.285 dB

MARKER READOUT
FUNCTIONS