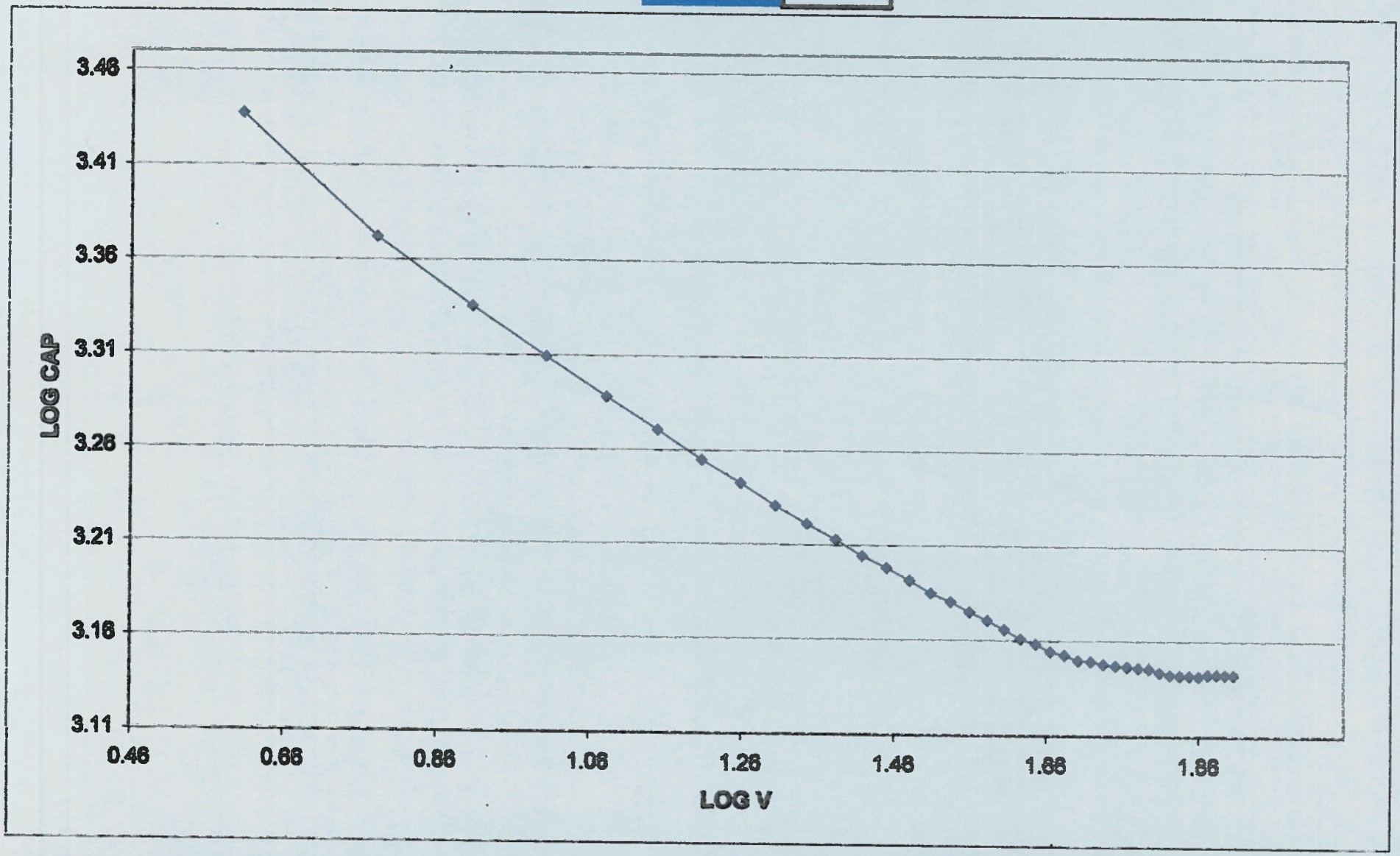
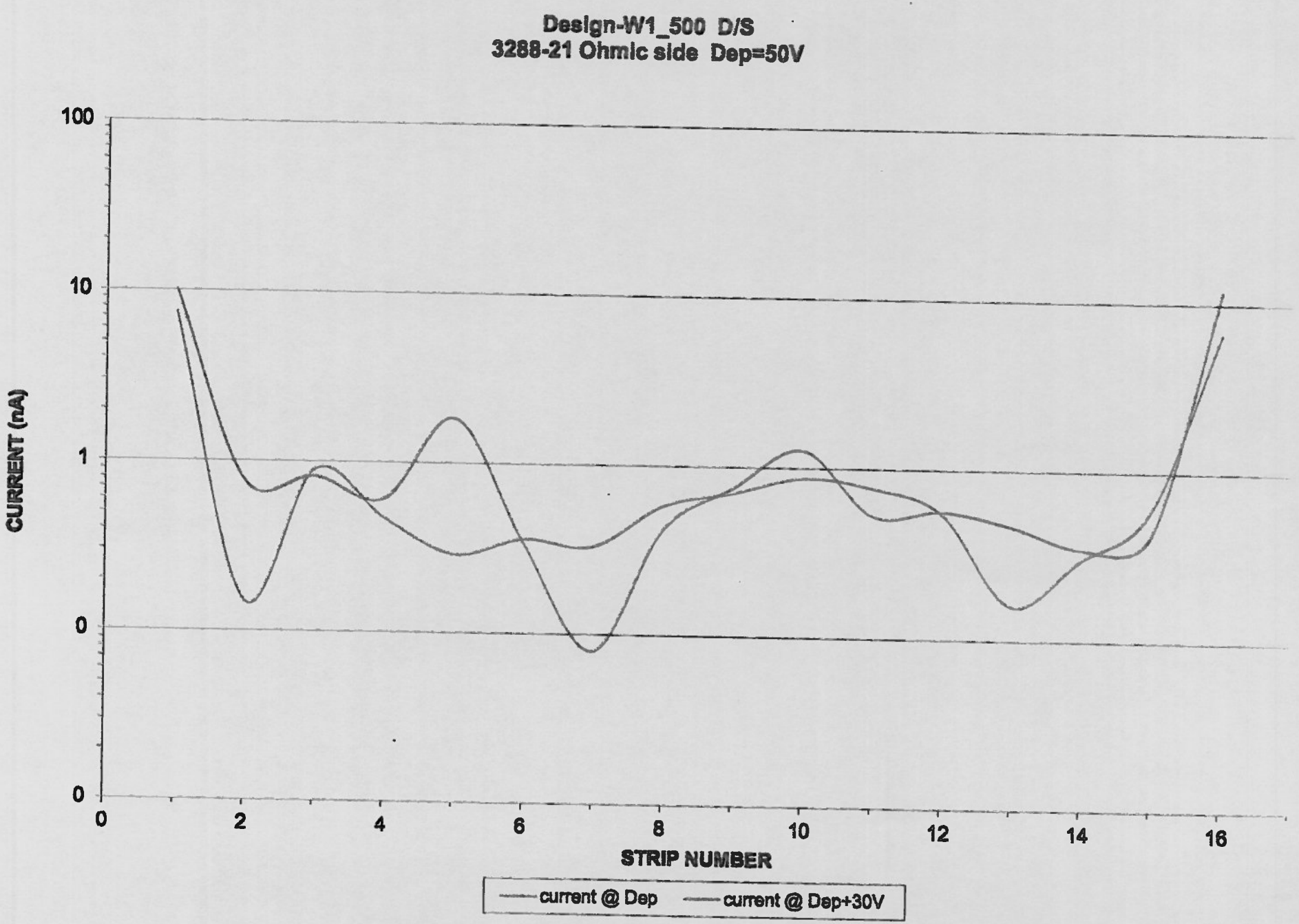
Depletion Plot

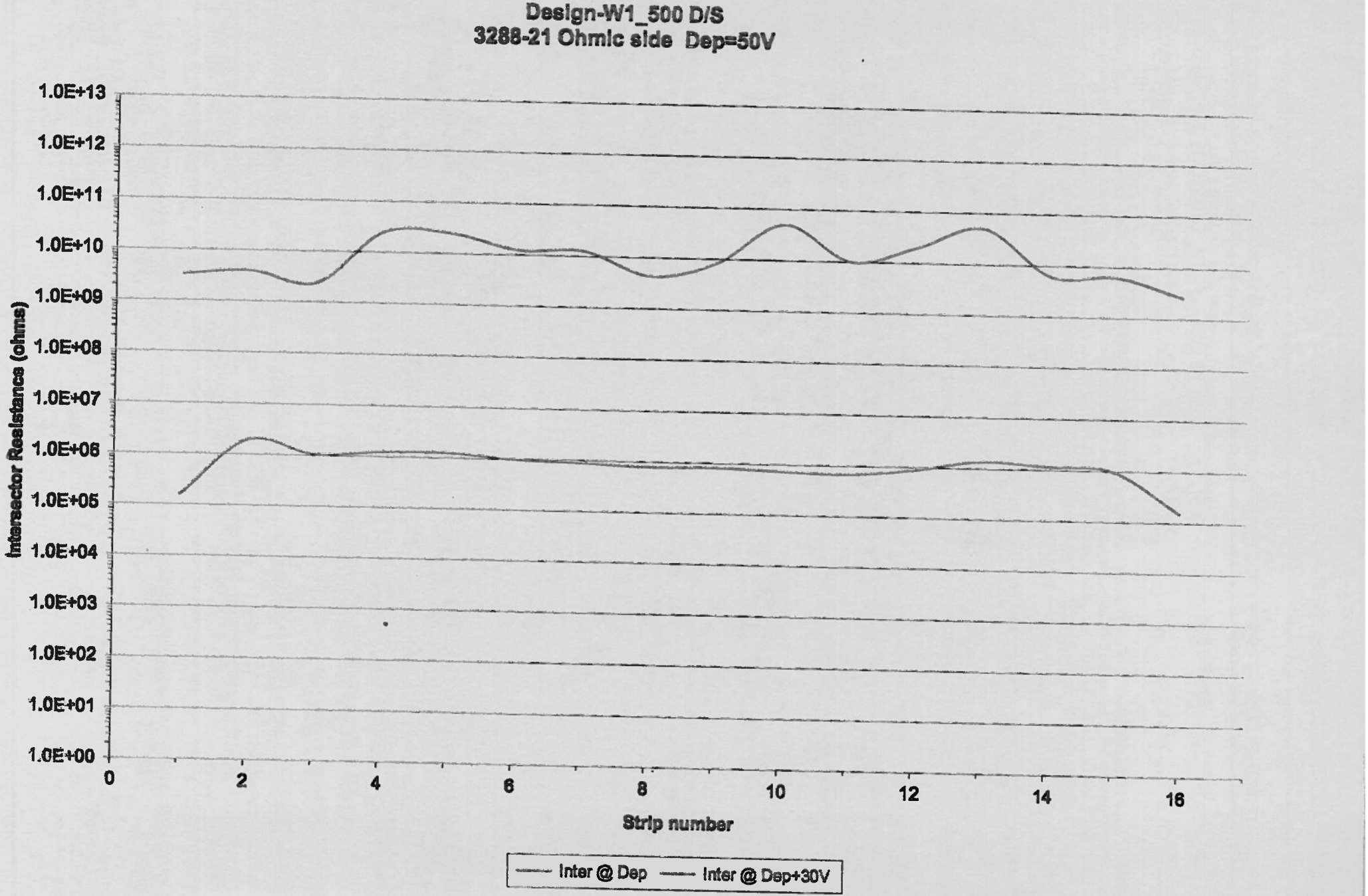
W1-500

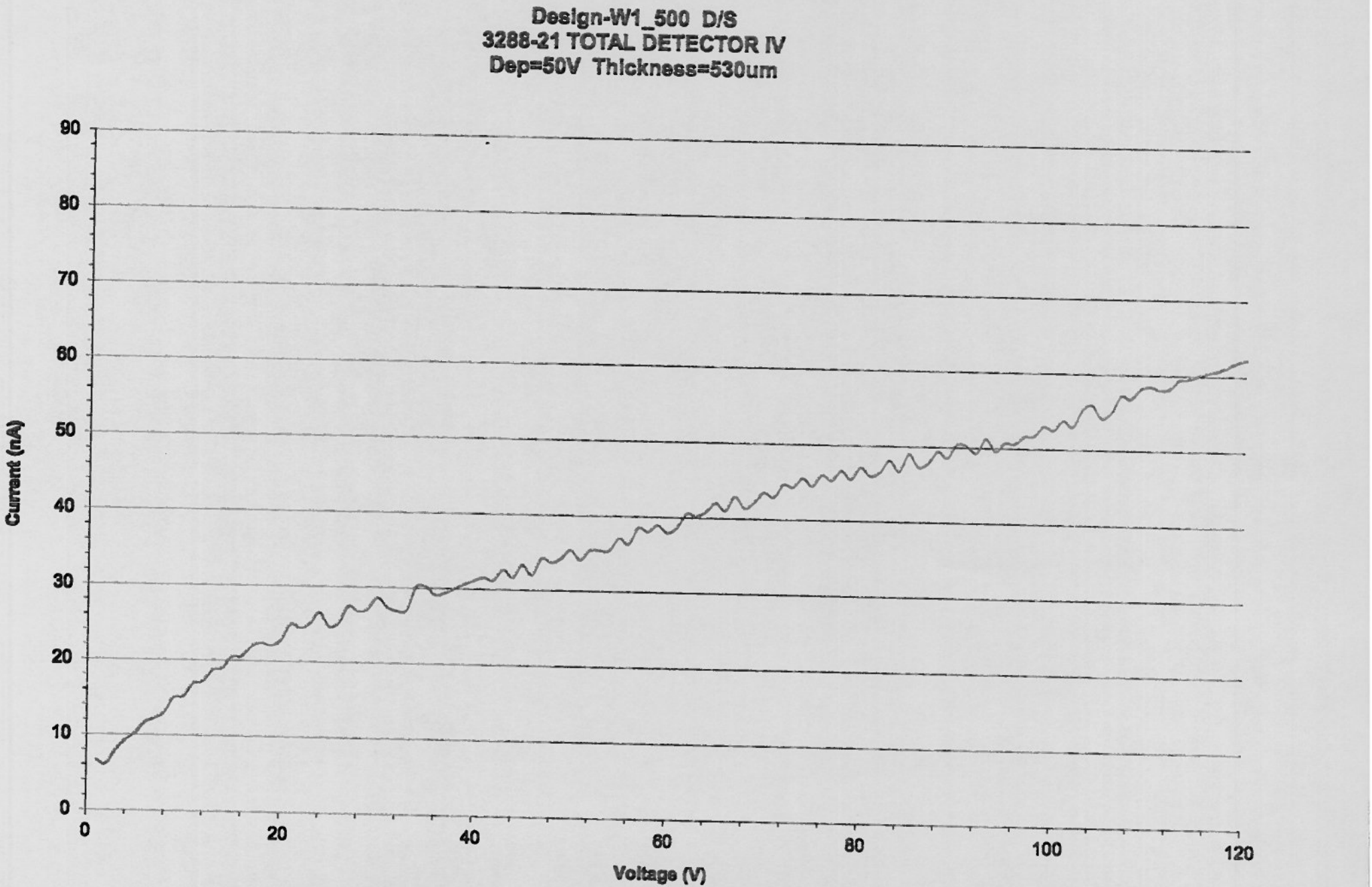
Wafer No.:	3288-21
Thickness:	530 um
Depletion:	50 Volts

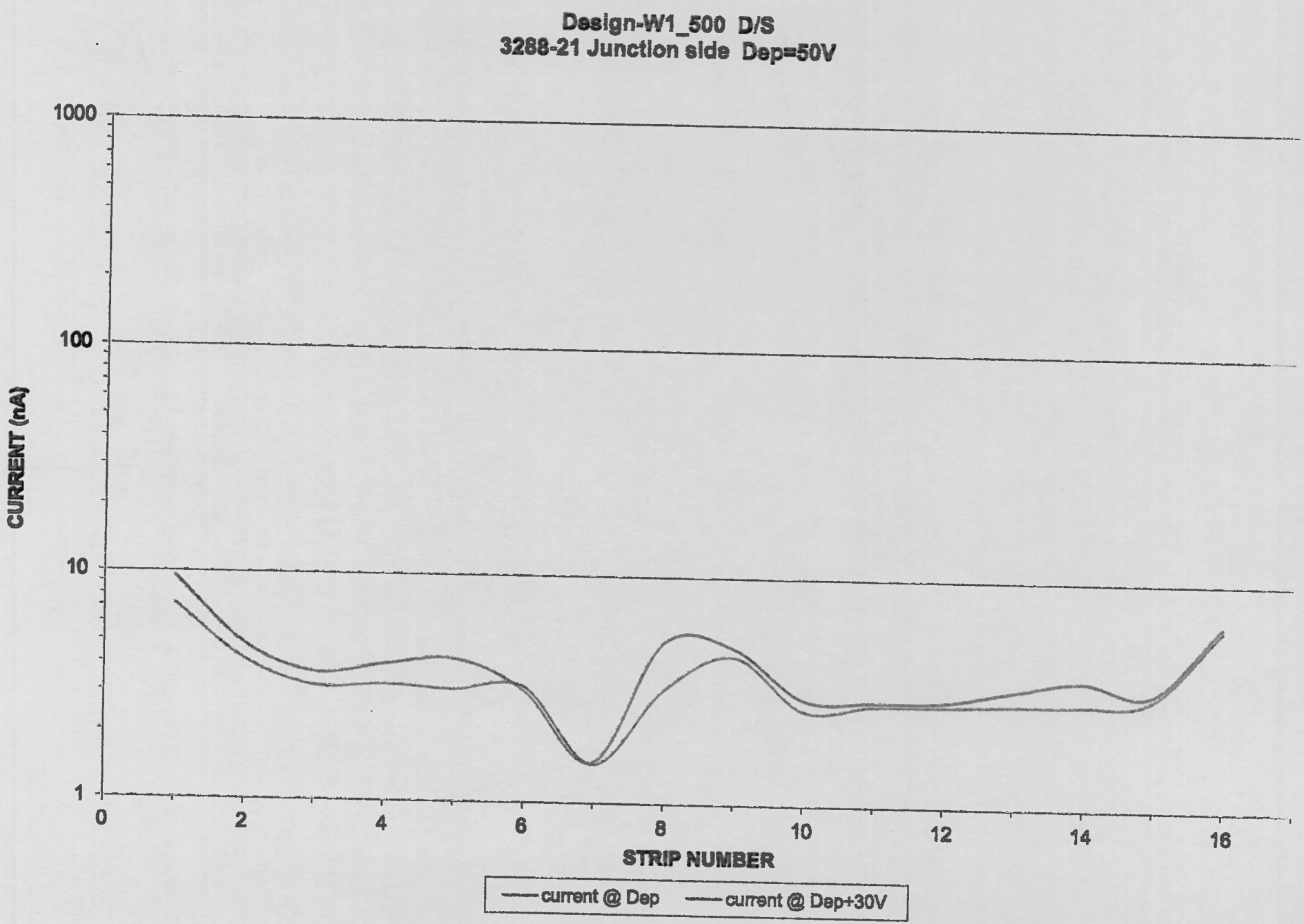


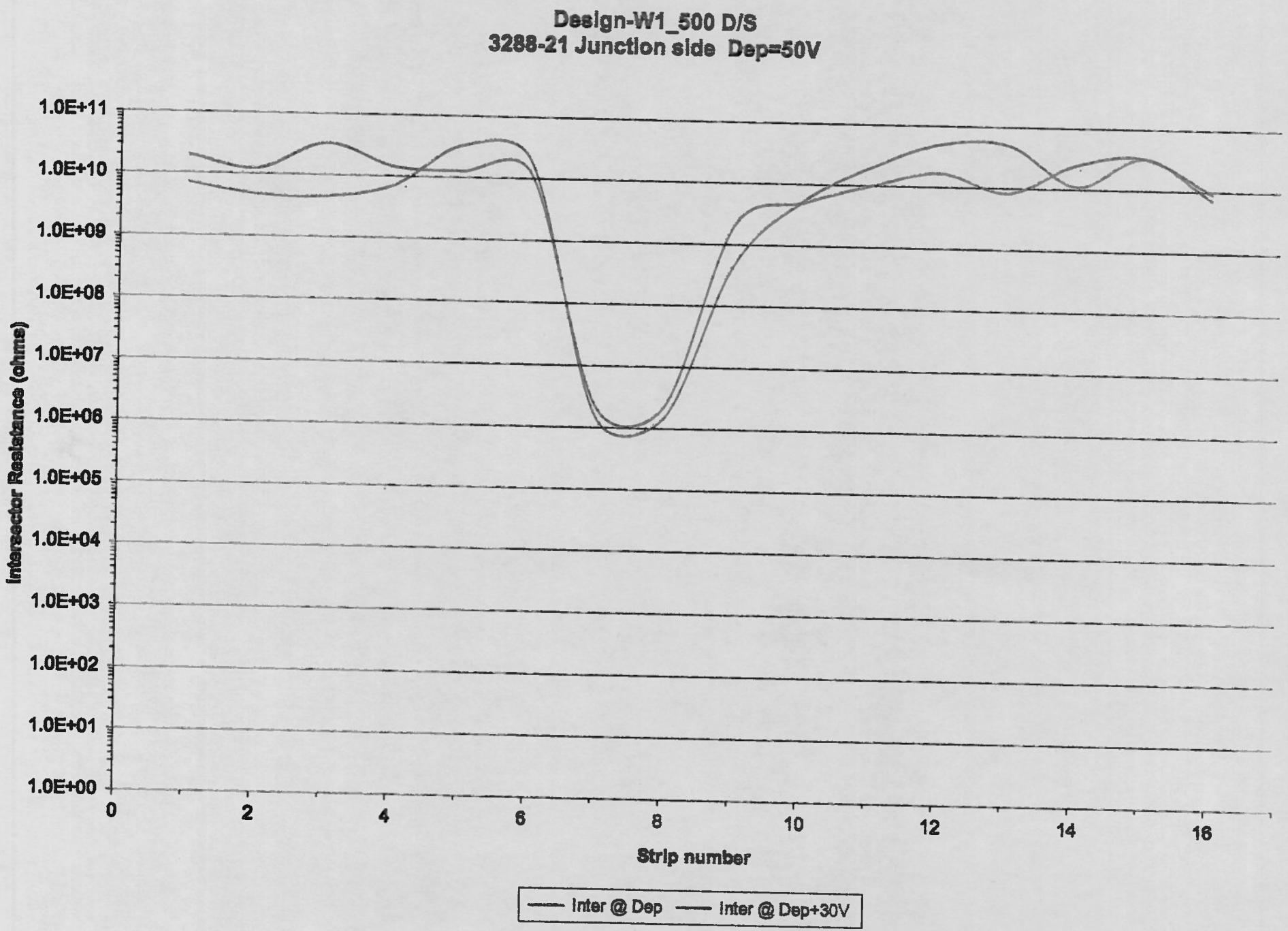
Micron Semiconductor
09-03-18


Design-W1_500 D/S
3288-21 Ohmic side Dep=50V
100
10
1
0
0
CURRENT (nA)
0
2
4
6
8
10
12
14
16
STRIP NUMBER
current @ Dep
current @ Dep+30V


Design-W1_500 D/S
3288-21 Ohmic side Dep=50V
Intersector Resistance (ohms)
1.0E+13
1.0E+12
1.0E+11
1.0E+10
1.0E+09
1.0E+08
1.0E+07
1.0E+06
1.0E+05
1.0E+04
1.0E+03
1.0E+02
1.0E+01
1.0E+00
0
2
4
6
8
10
12
14
16
Strip number
Inter @ Dep
Inter @ Dep+30V

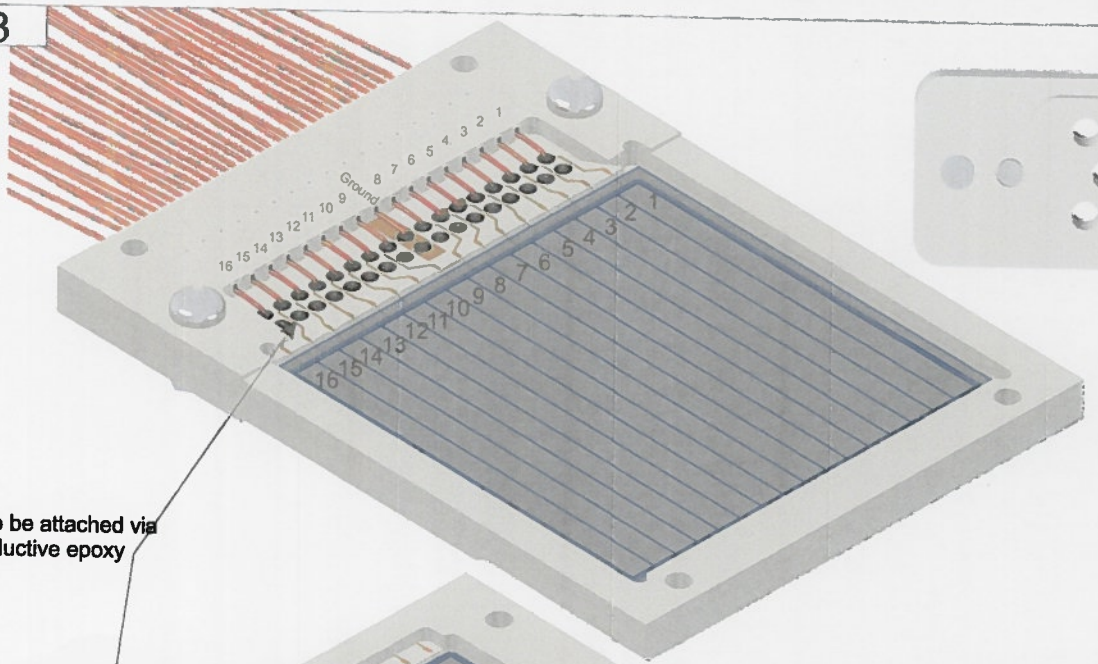

Design-W1_500 D/S
3288-21 TOTAL DETECTOR IV
Dep=50V Thickness=530um
Current (nA)
0
10
20
30
40
50
60
70
80
90
0
20
40
60
80
100
120
Voltage (V)


Design-W1_500 D/S
3288-21 Junction side Dep=50V
1000
100
10
1
CURRENT (nA)
0
2
4
6
8
10
12
14
16
STRIP NUMBER
current @ Dep
current @ Dep+30V

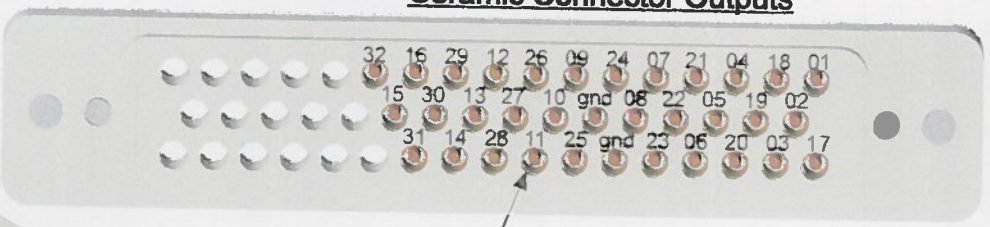

Design-W1_500 D/S
3288-21 Junction side Dep=50V
Intersector Resistance (ohms)
1.0E+11
1.0E+10
1.0E+09
1.0E+08
1.0E+07
1.0E+06
1.0E+05
1.0E+04
1.0E+03
1.0E+02
1.0E+01
1.0E+00
0
2
4
6
8
10
12
14
16
Strip number
Inter @ Dep
Inter @ Dep+30V

Drg. No A-4753

Front View



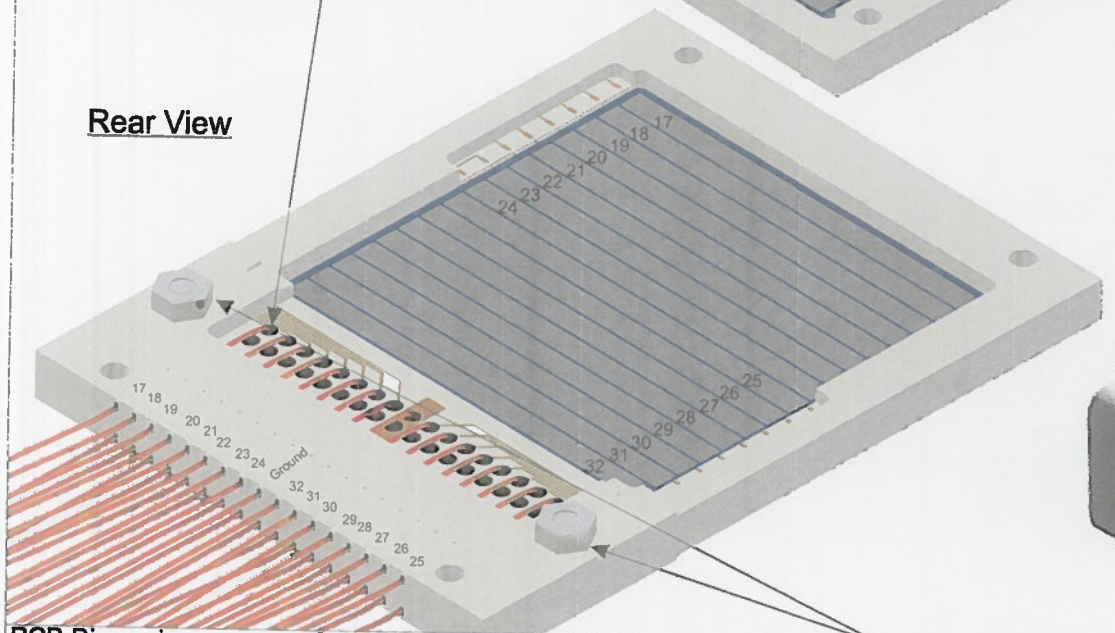
Ceramic Connector Outputs



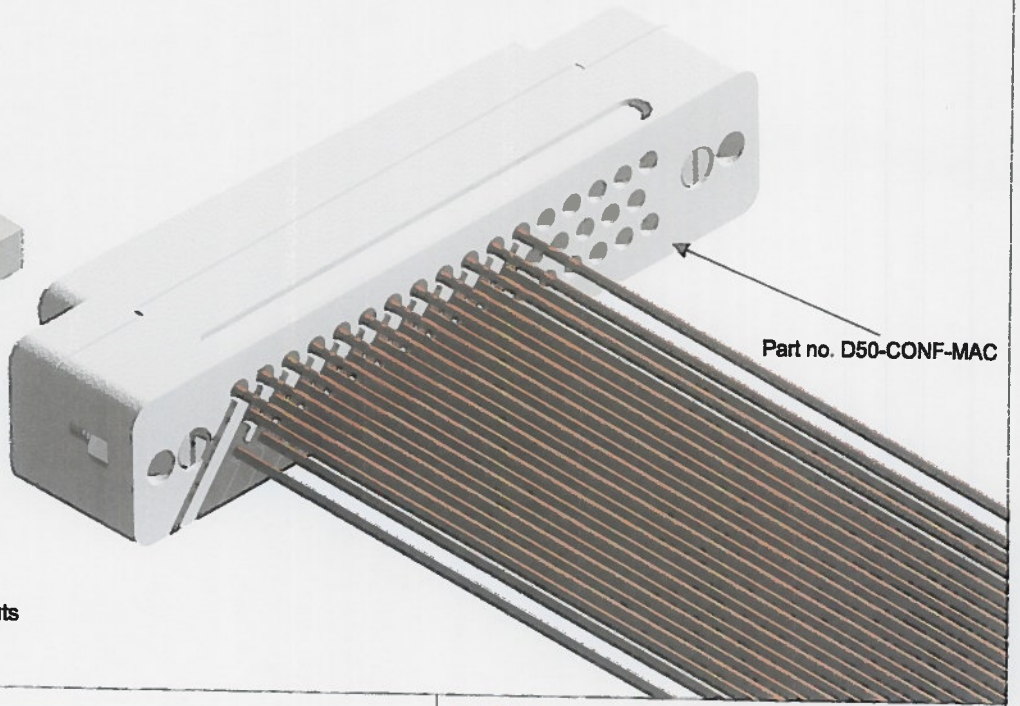
Connector outputs to be crimped using crimps parrt no. DPINF-25 and crimp tool Part no. DCT1

Wires to be attached via conductive epoxy

Rear View



Ceramic Connector



Part no. D50-CONF-MAC

2 x Stainless steel screws and nuts no thread showing past the nut

PCB Dimensions	= 63.50 x 86.50 x 4.90 mm³
Chip Dimensions	= 53.78 x 53.78 mm²
Active Area	= 49.50 x 49.50 mm²

Drawn	Checked	Date
N.W	S.W	05/10/2017
Des.		
Appd		
Customer		

Tolerances Unless Stated	
x.xx = ± 0.1 mm	
x.xxx = ± 0.01 mm	
Angular ± 0.25°	
Material Thickness ± 10%	

Outputs Via: 210 cm long Kepton Wire, Lew/Vac Pt no. KAPW7X008 into Part no. D50-CONF-MAC	
Mating connector:	
Testing Mating connector: N/A	
Substrate Number: A-4723 and A-4724	Potted Wire Bonds: No
Substrate Material: Rogers 4350	
Connector Orientation: Straight connector at end of cables.	

Title.

Design W type 2M/2M.
On 2017 Design Rogers PCB
3D Assembly.

MICRON SEMICONDUCTOR LIMITED

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Scale N/A	Dims In. mm	Drg No A-4753