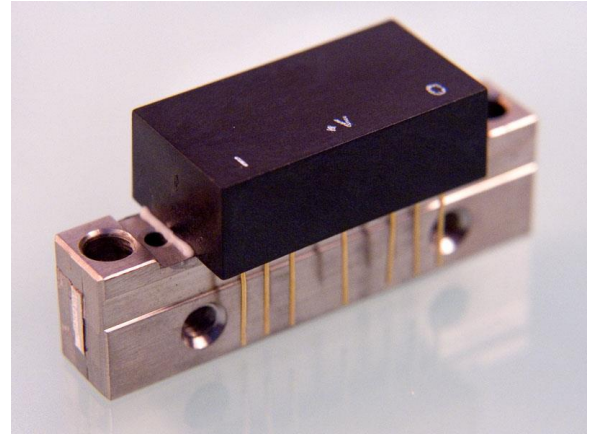


**Features: (typical values)**

- Output Power – 800mW. @ 1dB. compression, f=200 MHz
- Low Noise Figure – 4.0 dB.
- IP3 – 44 dBm. @ f = 200 MHz
- IP2 – 70dBm. @ f = 100 MHz
- Usable for 50 – 100 ohm systems
- Unconditional Stability
- External Connections

**10 – 350 MHz  
33 dB CATV Linear  
Amplifier**



**Maximum Ratings**

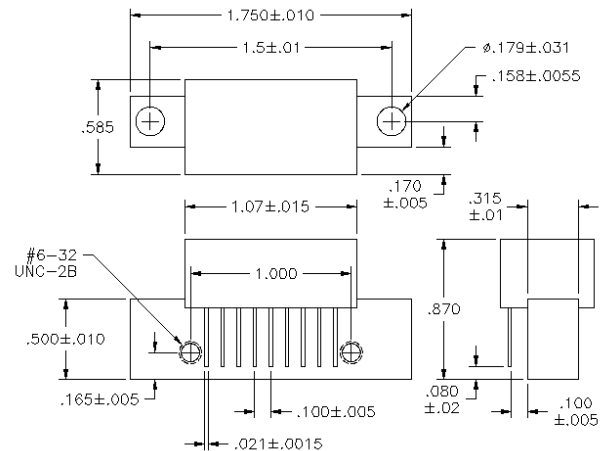
Storage temperature ..... -55°C to +125°C  
 DC Operating Voltage ..... +28.0 volts  
 RF Input Voltage ..... +5 dBm. Max.  
 Operating Base Temp. .... -20 to +85°C

Specifications @ Tcase = 25°C, Vcc = 24V, 50 ohm systems unless otherwise noted.

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency Range		10	350	MHz.
Power Gain ( F=50mhz )	33.5	32.0	35.0	dB.
Gain Flatness (peak to peak)	0.5		2.0	dB.
Input VSWR	1.5		2.0:1	-
Output VSWR	1.7		2.0:1	-
Noise Figure ( f = 200mhz )	4.0		8	dB.
Power Output- 1db Compression ( f = 200 MHz )	900	800		mW.
Third Order Intercept (IP3) ( F=300mhz )	43			dBm.
Second Order Intercept (IP2)	70	60		dBm.
Supply Current	320		330	mA.

**Pin Configuration**


PIN# .....	Description
1 .....	Input
2,3,7,8 .....	Ground
5 .....	+V.
9 .....	Output
4, 6 .....	Not used



## FINAL TEST REPORT

<b>Model No : ASC2810</b>	<b>COMMENTS</b>				
Lot No : 2	<b>ALL TESTS PERFORMED PER SPC0xxx</b>				
Quantity Passed : Tested : 1 1	<b>Tc = +25° C</b>				
Date Finish : Started : 9/17/2020 9/17/2020	Vdc = +24 V				
Operator : C N / H N	Serial Numbers: 0202				
<b>TEST</b>	<b>LIMIT / S/N</b>	0202			
Gain 10 MHz to 350 MHz	32.0 dB min 35.0 dB max	33.6 34.2			
Gain Flatness (peak to peak) 10 MHz to 350 MHz	2.0 dB max	0.6			
Noise Figure @ 200 MHz	8.0dB max	3.99			
DC Current at +24 Vdc	330 mA max	318			
Input/Output VSWR 10 MHz to 350 MHz	2.0: 1 max	1.42 1.39			
Power Output @ 1dB Comp F = 200 MHz	800 mW min	1120			
IP3 @ Pout = +15.0 dBm 1) F(1,2)= 299,300 MHz Fc(298,301 MHz)	+43.0 dBmTyp	41.0			
IP2 @ Pout = +15.0 dBm 1) F(1,2)= 10+290MHz Fc(300 MHz)	60.0 dBm min	70.0			
Stability Test for all frequency range where  S21  > 0 dB	0 dB max	<0			

FC	NF	P1dB
10 MHz	4.12	30.1
50 MHz	3.68	30.2
100 MHz	3.72	30.1
200 MHz	3.99	30.4
300 MHz	4.38	30.0
350 MHz	4.62	29.9

	SIZE <b>A</b>	CAGE CODE <b>32BZ0</b>	DWG. NO OPS0371
	SCALE	REV. -----	SHEET OF 4 4

ASC 2810

GAIN

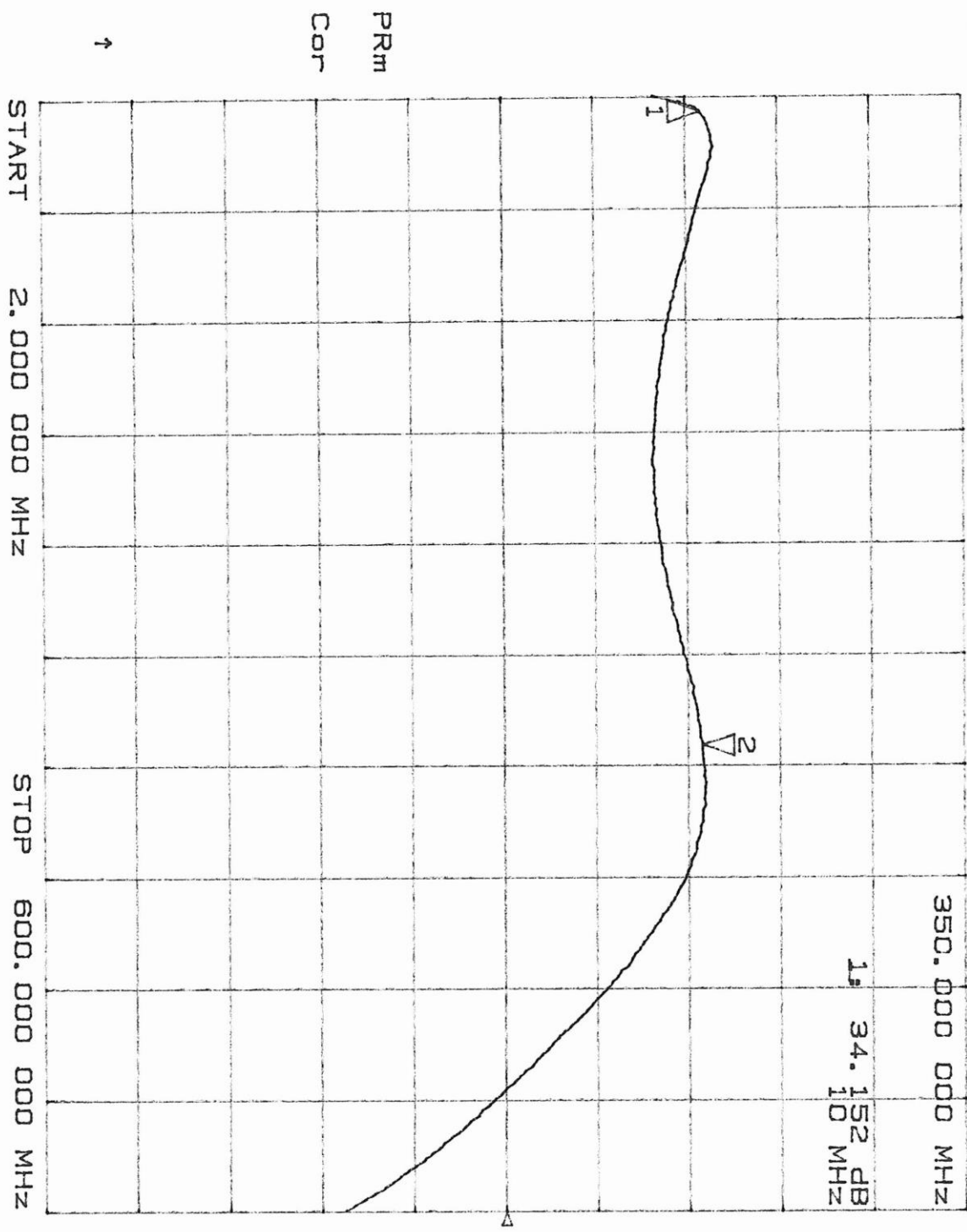


17 Sep 2020 09:27:57

CH2 S21 10g MAG 1 dB/ REF 32 dB 2: 34.159 dB

350.000 000 MHz

1: 34.152 dB  
10 MHz



PRM  
Cor

↑

ASC 2810 JMW R.L

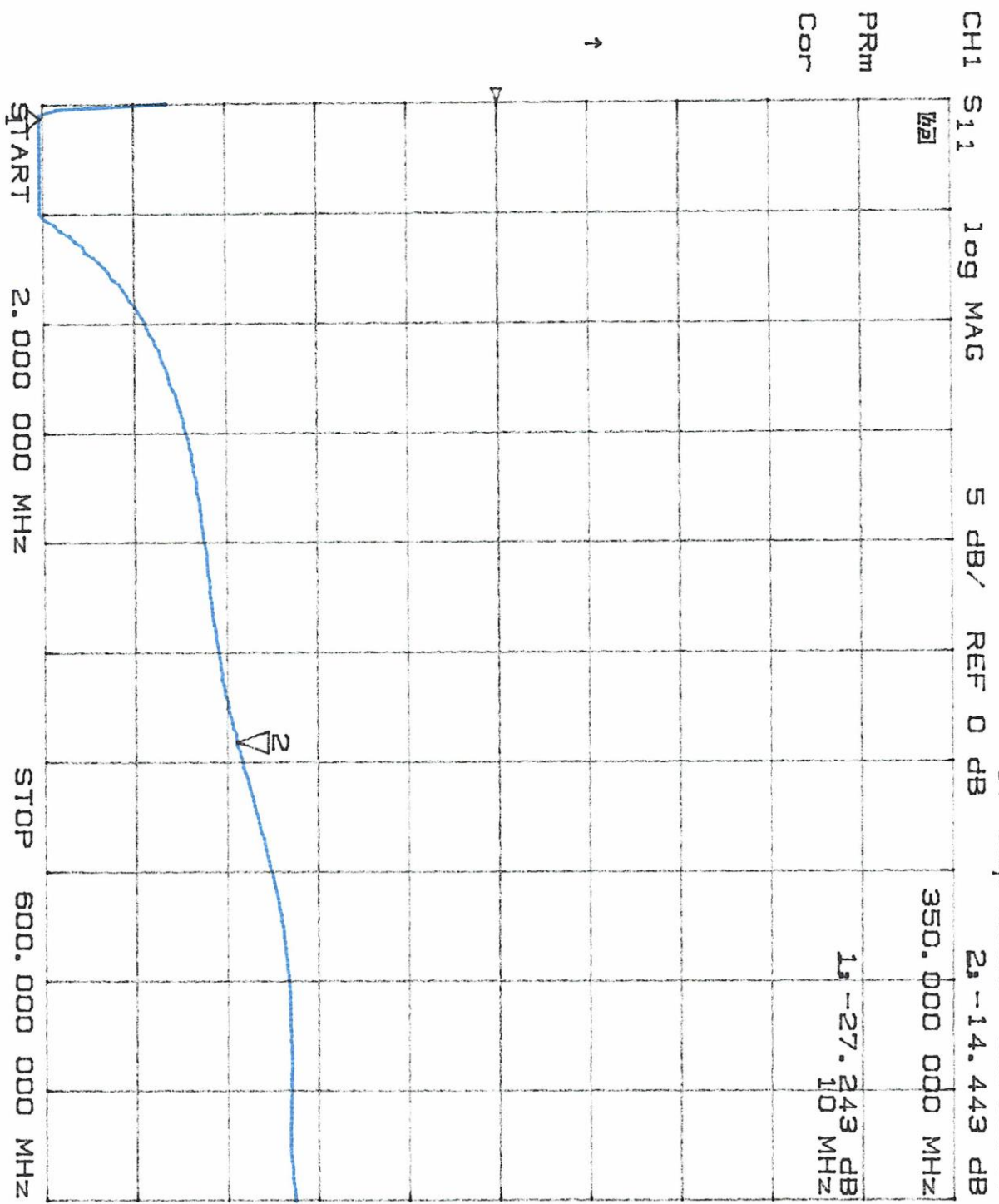


17 Sep 2020 09:30:07

21-14.443 dB

350.000 000 MHz

1, -27.243 dB  
10 MHz



ASC 2710 01P R.L



17 Sep 2020 09:32:43

CH1 S22 10g MAG 5 DB/ REF 0 DB 350.000 000 MHZ 2. -16.647 DB

PPrm

Cor

1. -16.69 DB  
10 MHZ

Smo

↑

