Pascall SSD Series

Linearity ±0.5dB

20MHz to 650MHz

High Pulse Fidelity
Standard 90mm Package

SSDA Super Series (Linearity ±0.5dB)

Model No.	Centre Freq. MHz	Band-Width MHz	Dynamic Range dB	Rise-Time nSec	Fall Time nSec
SSDA-2005	20	5	80	200	500
SSDA-3010	30	10	80	100	250
SSDA-6010	60	10	80	90	230
SSDA-6020	60	20	80	45	120
SSDA-7010	70	10	80	90	230
SSDA-7020	70	20	80	45	120
SSDA-7040	70	40	80	30	90
SSDA-12020	120	20	80	45	120
SSDA-12040	120	40	80	30	60
SSDA-16040	160	40	70	30	60
SSDA-16080	160	80	70	20	40
SSDA-20050	200	50	70	30	60

SSDB Standard Series (Linearity ±1dB)

SSDB-2005	20	5	80	200	500
SSDB-3010	30	10	80	100	250
SSDB-6010	60	10	80	90	230
SSDB-6020	60	20	80	45	120
SSDB-7010	70	10	80	90	230
SSDB-7020	70	20	80	45	120
SSDB-7040	70	40	80	30	90
SSDB-12020	120	20	80	45	120
SSDB-12040	120	40	80	30	60
SSDB-16040	160	40	80	30	60
SSDB-16080	160	80	80	20	40
SSDB-20050	200	50	80	30	60
SSDB-30050	300	50	70	30	60
SSDB-50050	500	50	70	15	25

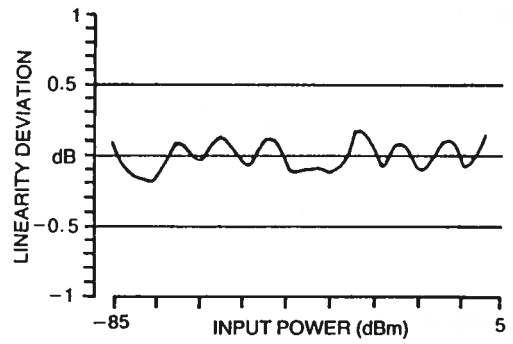
SSDBB Broadband Series (Linearity ±1dB)

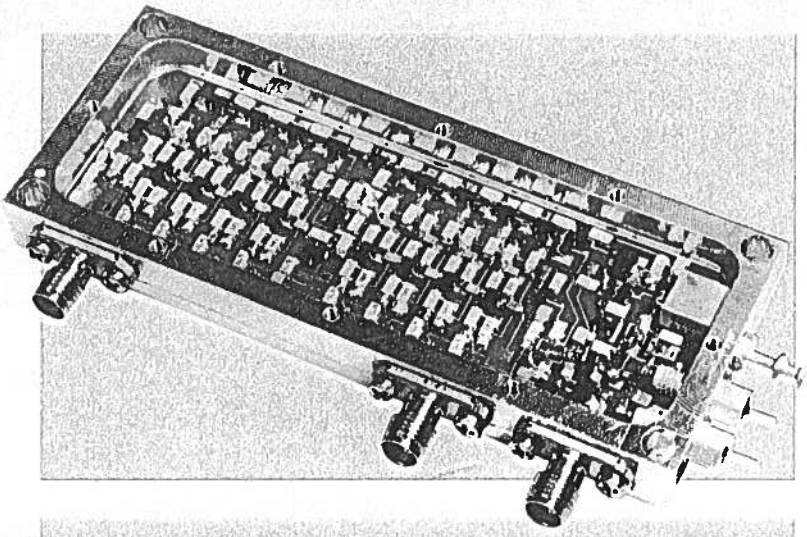
SSDBB-150100	150	100	70	20	35
SSDBB-300200	300	200	70	15	35
SSDBB-375250	375	250	65	15	35
SSDBB-450300	450	300	65	15	35
SSDBB-475150	475	150	65	15	35
SSDBB-625150	625	150	65	15	35

Typical Performance @ 25°C

SSDA 12040

M = 25.09mV/dB
C = 2.001V
FREQ = 120 MHz
TEMP = 25°C

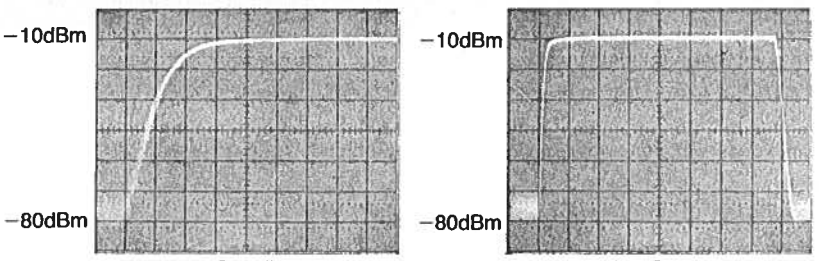




Additional Specifications

Linearity, max deviations	SSDA	SSDB
@ Centre Frequency and 25°C	±0.5dB	±1dB, 0.7dB Typ
Over 0°C to 60°C	±0.8dB	±1.5dB
Over −45°C to 85°C	±1.5dB	±2.0dB
Log slope:	25mV/dB nominal	
Max. variation with temperature:		
0°C to 60°C	±2%	±3%
−45°C to +85°C	±2.5%	±5%
Video output DC coupled into 100 ohms.		
Output range	2.0V (Nom.)	
Offset adjust	±100mV	
Max offset change with temperature		
0°C to 60°C	±12mV	±20mV
−45°C to 85°C	±30mV	±40mV
Limited IF Output Into 50 ohms	0dBm ±2dB	
Input VSWR	1.5:1	
Power requirements, ±12V or ±15V	+ve 60mA max −ve 110mA max (160mA max. SSDBB)	
Weight	85 grams max	

For package dimensions and ordering information see pages 14 and 15



Pulse response of SSDA 12040

Linearity is defined as the deviation from the best fit straight line to the measured data. All the above parameters are specified @ 25°C.

Pascall Electronics Ltd , Park Road, Ryde, I.O.W. PO33 2BE, U.K.
Tel +44 1983 568444 Fax +44 1983 56470

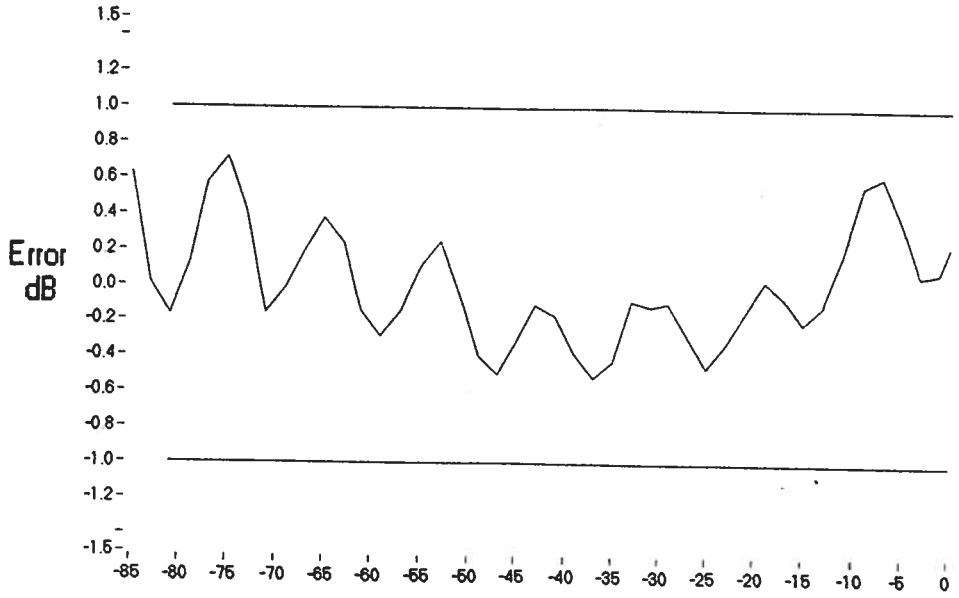
TEST RESULTS

LOGARITHMIC DETECTOR SSDA 7020-A21-100

SERIAL NUMBER 970961

Drawing Number	Job Card Number	Test Record Number
1-08063	2689	

Video Output Error at70.0 MHz and 25 deg c



LOG SLOPE 25.27 mV/dB OUTPUT AT 0dBm 2.004 V

Pulse Rise Time....15.0 ns

15.0V Supply Current....49.0 mA

-15.0V Supply Current....90.0 mA

Video Load Impedance....100

Tested by.....

23 - MAY - 1997

Pascall Electronics Ltd , Park Road, Ryde, I.O.W. PO33 2BE, U.K.
Tel +44 1983 568444 Fax +44 1983 56470

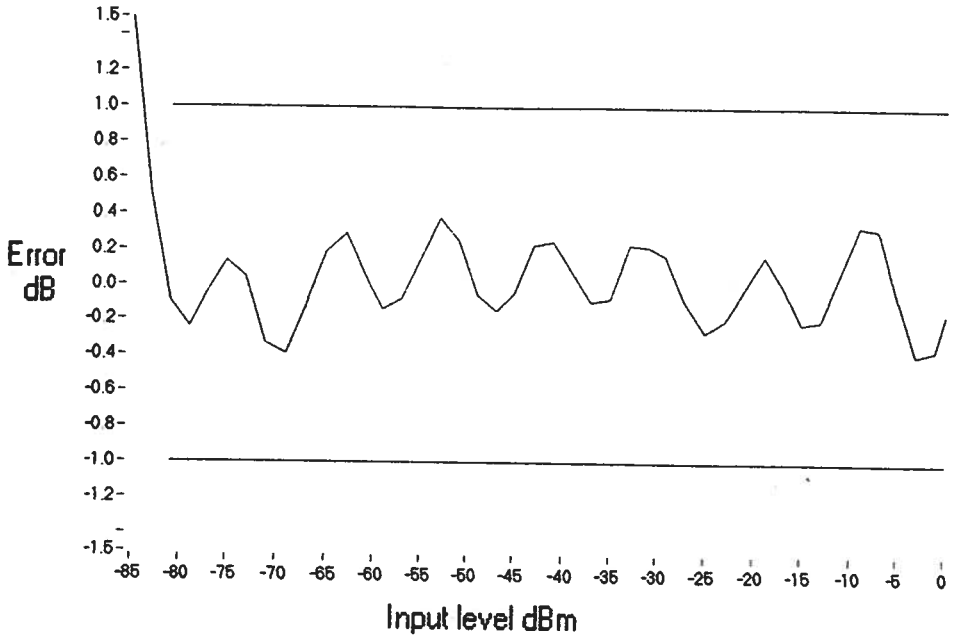
TEST RESULTS

LOGARITHMIC DETECTOR SSDA 7020-A21-100

SERIAL NUMBER 970960

Drawing Number	Job Card Number	Test Record Number
1-08063	2689	

Video Output Error at 70.0 MHz and 25 deg c



LOG SLOPE 25.18 mV/dB OUTPUT AT 0dBm 2.000 V

Pulse Rise Time....15.0 ns

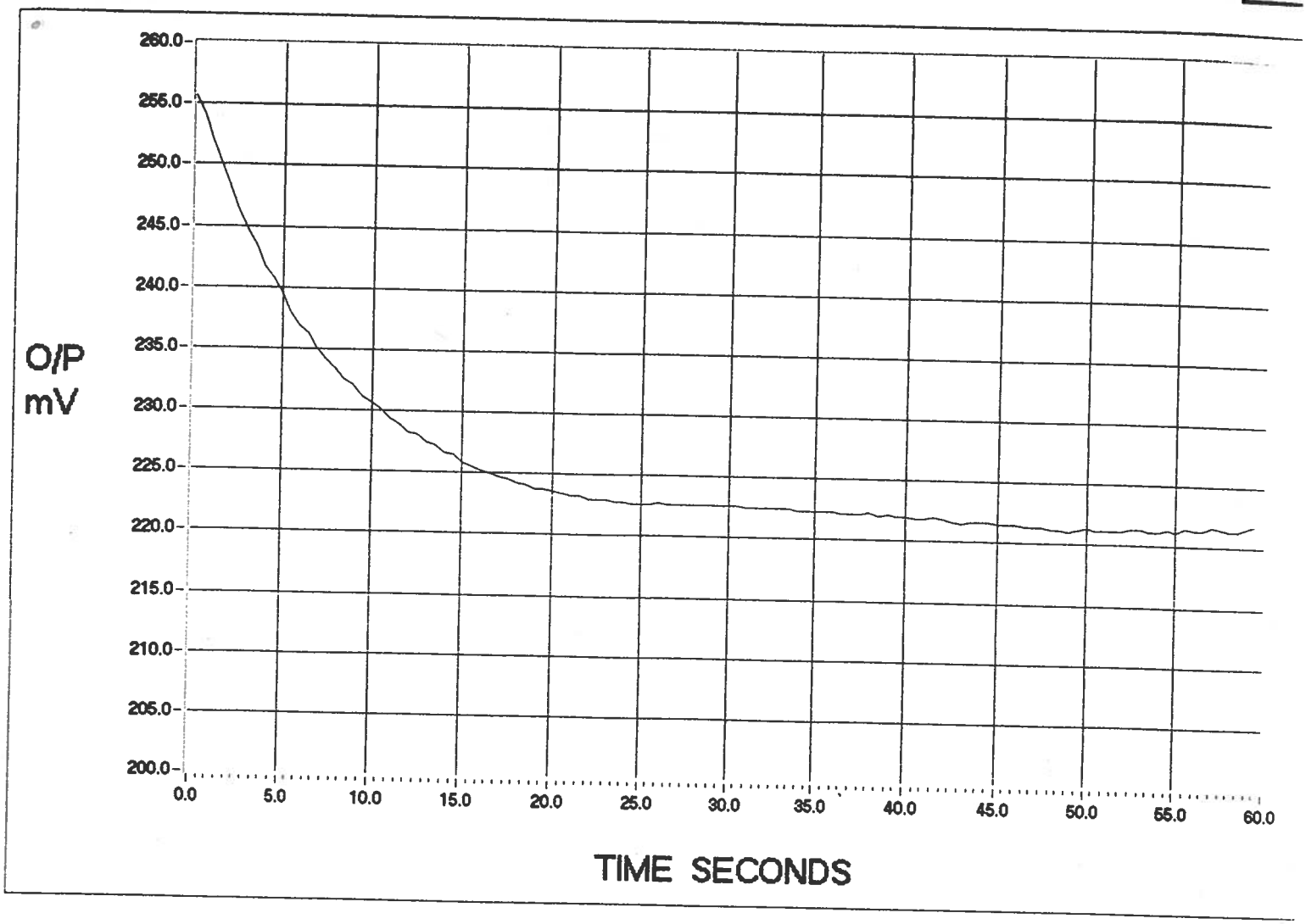
15.0V Supply Current....48.0 mA

-15.0V Supply Current....91.0 mA

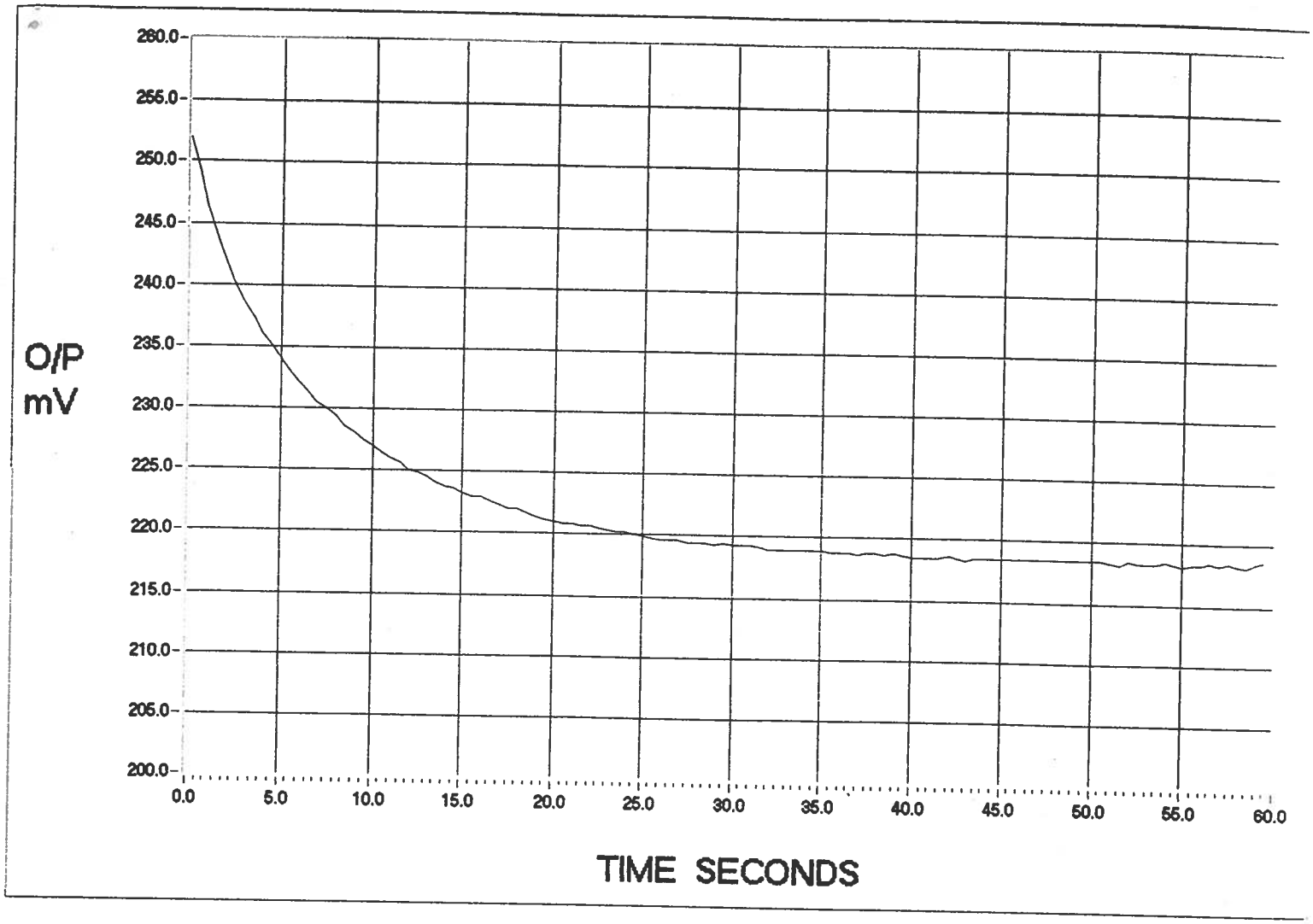
Video Load Impedance....100

Tested by.....

23 - MAY - 1997


O/P
mV
260.0
255.0
250.0
245.0
240.0
235.0
230.0
225.0
220.0
215.0
210.0
205.0
200.0
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
55.0
60.0
TIME SECONDS

970960


O/P
mV
260.0
255.0
250.0
245.0
240.0
235.0
230.0
225.0
220.0
215.0
210.0
205.0
200.0
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
55.0
60.0
TIME SECONDS

970961