



Pascall's Quality System
Is Registered Under
BS EN ISO 9001



PM 13274
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Pascall

WIRELESS COMMS

LOG AMPLIFIERS

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HDR SERIES

95dB Dynamic Range • Linearity $\pm 0.5\text{dB}$

Model No. HDRA	Centre Freq. MHz	Bandwidth MHz	Rise Time nsec	Fall Time nsec
HDRA Series (Linearity $\pm 0.5\text{dB}$)				
HDRA-1002	10	2	500	1200
HDRA-2005	20	5	200	600
HDRA-3010	30	10	100	300
HDRA-6020	60	20	50	150
HDRA-7010	70	10	90	300
HDRA-12020	120	20	45	150
HDRA-16040	160	40	30	80
HDRA-22050	220	50	15	80

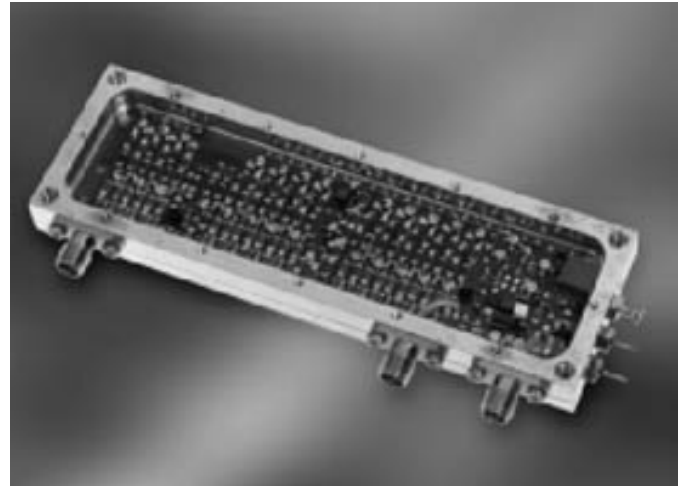
Model No. HDRB	Centre Freq. MHz	Bandwidth MHz	Rise Time nsec	Fall Time nsec
HDRB Series (Linearity $\pm 1.0\text{dB}$)				
HDRB-1002	10	2	500	1200
HDRB-2005	20	5	200	600
HDRB-3010	30	10	100	300
HDRB-6020	60	20	50	150
HDRB-7010	70	10	90	300
HDRB-12020	120	20	45	150
HDRB-16040	160	40	30	80
HDRB-22050	220	50	15	80

Additional Specifications

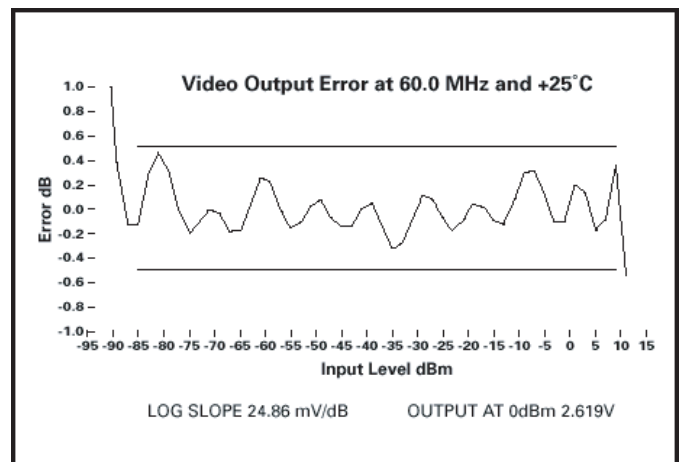
Log Slope	25mV/dB nominal
Slope Variation (0-60°C)	$\pm 2\%$ max (HDRA) $\pm 3\%$ max (HDRB)
Video Output	0 to 2.375V nominal
Offset Adjustment	$\pm 100\text{mV}$ min
Limited IF Output	0dBm $\pm 2\text{dB}$
Input VSWR	1.5:1 max
Power Consumption	+ve 60mA max -ve 120 mA max

Optional Features

- Dynamic range to 100dB
- Temperature range to -45° to $+85^\circ\text{C}$
- Matched pairs
- Log slope in the range 15-40mV/dB
- $\pm 12\text{V}$ or $\pm 15\text{V}$ supply
- Centre frequencies in range 10-500MHz

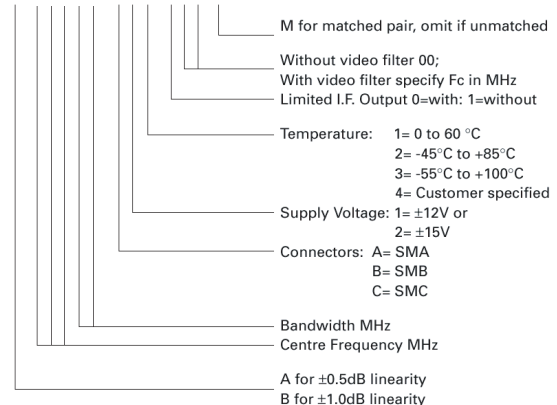


Typical Performance @ +25°C



Ordering Information

HDRX-XXXXX-XXX-XXX-X



Example: **HDRA-7020-A12-000** is a $\pm 0.5\text{dB}$ linearity unit with 70MHz centre frequency, 20MHz bandwidth, SMA connectors 12 volt operation, -45°C to $+85^\circ\text{C}$, with limited I.F. o/p.

DIMENSIONS in mm. FINISH Bright tin, generally in accordance with MIL-T-10727 Type 1 Bright.

