

Specifications of LPD-100 Log Detector

LPD-100-2-35-FC/APC / LPD-100-4-35-FC/APC

LPD-100-2-10-FC/APC / LPD-100-4-10-FC/APC



Change History:

Version	Date	Description of Change	Authors
1.0	06/22/202	Original Document	Allen Zhang

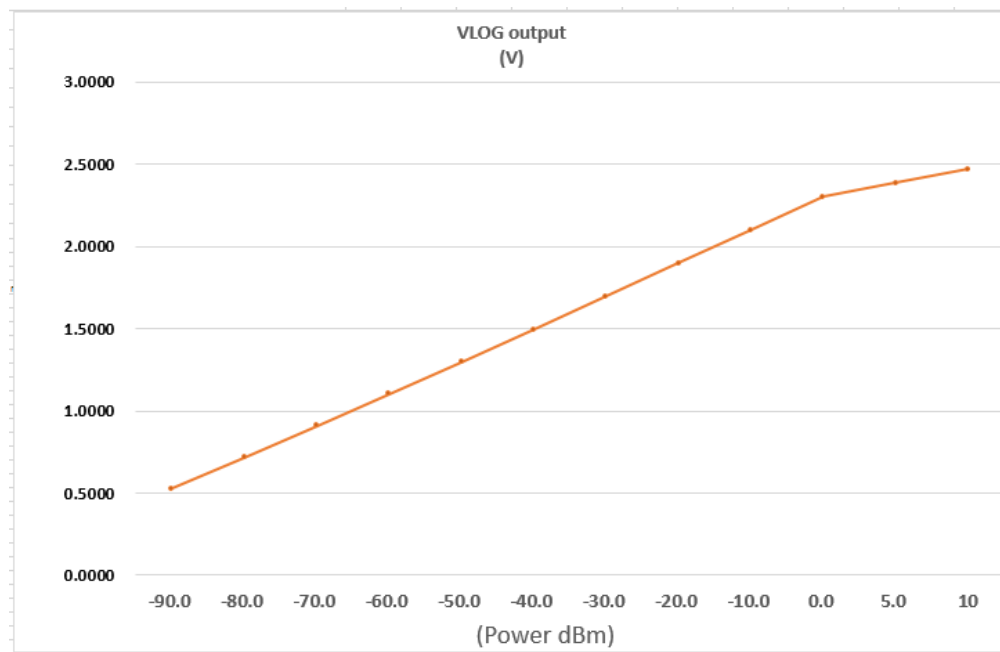
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1. Description:

We designed the LPD-100 to utilize a newer log amp design with a large dynamic range and fast response. Below is an example of the new LPD-100 Logarithmic Detector detecting over 10 decades of optical power from four or two analog outputs

$$-90\sim 0\text{dBm: } V_{\text{out}} = 0.0197 \times \text{Optical Power [dBm]} + 2.2915$$

$$0\sim 10\text{dBm: } V_{\text{out}} = 0.0171 \times \text{Optical Power [dBm]} + 2.2997$$



2. Specifications:

Operating Wavelength Range	1200~1680nm
Fiber Type	SM
Optical Connector Type	FC/APC
Output offset (V)	-0.6V+/-0.15
Output Voltage(V) max@10dbm	2.5V+/-0.05
SMA Port output impedance (Ω)	50
Detected Optical Dynamic Range is100dB	-90dBm~10dBm
Frequency response range (Optical Power -90~10dBm)	1KHZ~4MHZ
Power Supply	AC 100~240V / 15VA
Operating Temperature	0 to 50 °C
Storage Temperature	-20 to 70 °C
Dimensions	230mm (L) x240mm (W) x 60mm (H)