

## Recmommend Driving Circuit for MINI Butterflypackge BPD

Two LP-PD BPDs were tested with CoMlind's optical system, the results were compared with CoMind's existing BPD of similar specification. The LP-PD BPDs were powered using a bench-top linear power supply RSPD-3303C (5V and 0.2A). A pair of ferrites were also added to the power cable. It was found that the signal recorded with both LP-PD BPD had noise which was not seen when the CoMind's existing BPD was used.

## Electronic interface circuit board

Figures 1 & 2 show the electronic circuit board (created at CoMind) and was used to interface the LD-PD BPD.





Figure 1. The 3D view of (left) the electronic circuit board and (right) the LD-PD BPD with the circuit board.



Figure 2. The circuit diagram of the electronic interface board. Component details are presented in the table below.

Comment	Description	Designator	Footprint	LibRef	Quantity
CAP 10uF 10V 1210(3225)	CAP 10uF 10V ±10% 1210 (3225 Metric) Thickness 2.2mm SMD	C1	CAPC1210(3225)230_ L	CMP-1038-02196-1	1
PMEG4030ER,115	DIODE SCHOTTKY 40V 3A SOD123W	D1	FP-SOD123W-MFG	CMP-14398-000026-1	1
150080GS75000		D2	WL- SMCW_0805_150080 xx75000	CMP-1426-00007-2	1
22-05-3021	CONN HEADER R/A 2POS 2.54MM	J1	FP-22-05-3021-MFG	CMP-04776-000166-1	1
SSW-106-02-G-S-RA	SQ Post Socket, Through-hole, Right Angle, -55 to 125 degC, 2.54mm Pitch, 6 Pin, Female, RoHS	J2	SMTC-SSW-106-02-X- S-RA	CMP-1023-00363-1	1
RC0603FR-071KL	RES 1K OHM 1% 1/10W 0603	R1	FP-RC0603-0_55- IPC_C	CMP-1659-00009-5	1

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