

QS Evaluation Board QS-01-Eval

Description

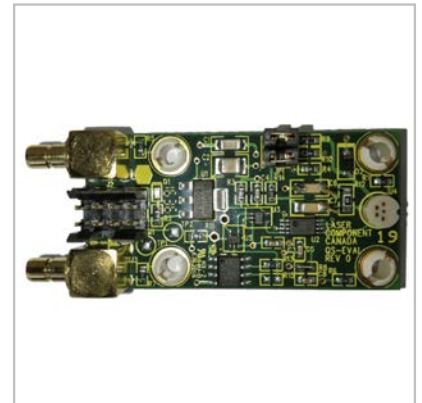
This is the evaluation board for the QS-905 laser pulsers. The board has an internal short pulse generator, allowing direct drive from a squarewave generator. The board has a socket for easy QS-905 installation.

Features

- TO-56 5 pins socket
- Choice of narrow or wide fired pulse for external TO synchronization
- Firing rate up to 200kHz
- +3.3V input trigger logic.
- Selectable gate on time 40/120 ns.

Applications

- Range finding
- Laser radar / LIDAR
- Ceilometer
- Medical
- Optical trigger



Specifications for QS01-Eval

I_{HV} HV = 50 V quiescent (Vswitch = 0)	<3	μ A
I_{HV} HV=50 V, V_{TRIG} = 200 KHz square wave	13	mA
V_{+}	5.7 +/- 0.2	V
I_{V+} Quiescent	4	mA
I_{V+} 200 kHz	5	mA
$V_{TrigLOW}$	<0.8	V
$V_{TrigHIGH}$	2.0<V<3.3	V
R_{Trig} Internal Termination	50	Ohms
$FWHM_{VMON}$ JP1 (Horz. shorts), 50 Ω , Neg. pulse	3	ns
$FWHM_{VMON}$ JP1 (Vert. shorts), 50 Ω , Neg. pulse	700	ns
T_D turn on delay (Trig to laser pulse)	15 typ	ns
P_D Quiescent	0.04	W
P_D 200 kHz	0.6	W



MON JP1 with VERT shorts
MON JP1 with HOR shorts

Optical Power

Figure 1: Typical behaviour



25 mm x 51 mm QuickSwitch Evaluation Board

PIN Configuration

Pin	Function	Comment
J3 (SMB)	TRIG	Internally terminated into 50 Ω
J2 (SMB)	MON	To be terminated into 50 Ω Short or long negative pulse according to jumpers orientation on JP1
J1 1 3, 5 7 2, 4, 6, 8	HV NC V+ GND	50 V input (60 V absolute maximum) TP1 and TP2 (Spares) 5.7 +/- 0.2 V nominal Ground pins
JP1	MON SELECT	Negative going pulse. Horz. shorts for FWHM = 3 ns (1.5 x Vf) Vert. shorts for FWHM = 700 nS (HV/10)

Product Changes

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