

iC-WK BMST WK1D PACKAGE SPECIFICATION

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ORDERING INFORMATION

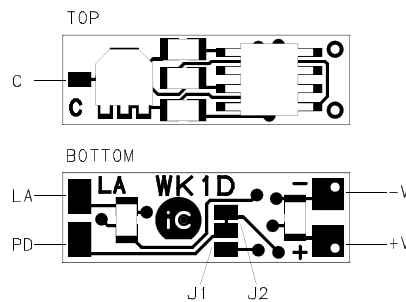
Type	Package	Options	Order Designation
iC-WK	BMST WK1D	none	iCSY WK1D
iC-WKL	BMST WK1D	none	iCSY WKL1D



20mm x 6.25mm

PIN CONFIGURATION

PIN FUNCTIONS



No.	Name	Function
1	+V	+5V Supply Voltage
2	-V	Ground
3	LA	Laserdiode Anode
4	PD	Photodiode
5	C	Common Pin Laserdiode
6	J1	Jumper 1 (M-type)
7	J2	Jumper 2 (P-type, default)

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Parameter	Conditions	Fig.				Unit
					Min.	Typ.	Max.	
TG1	Ta	Operating Ambient Temperature Range (extended temperature range on request)			0		50	°C
TG2	Ts	Storage Temperature Range			-20		70	°C

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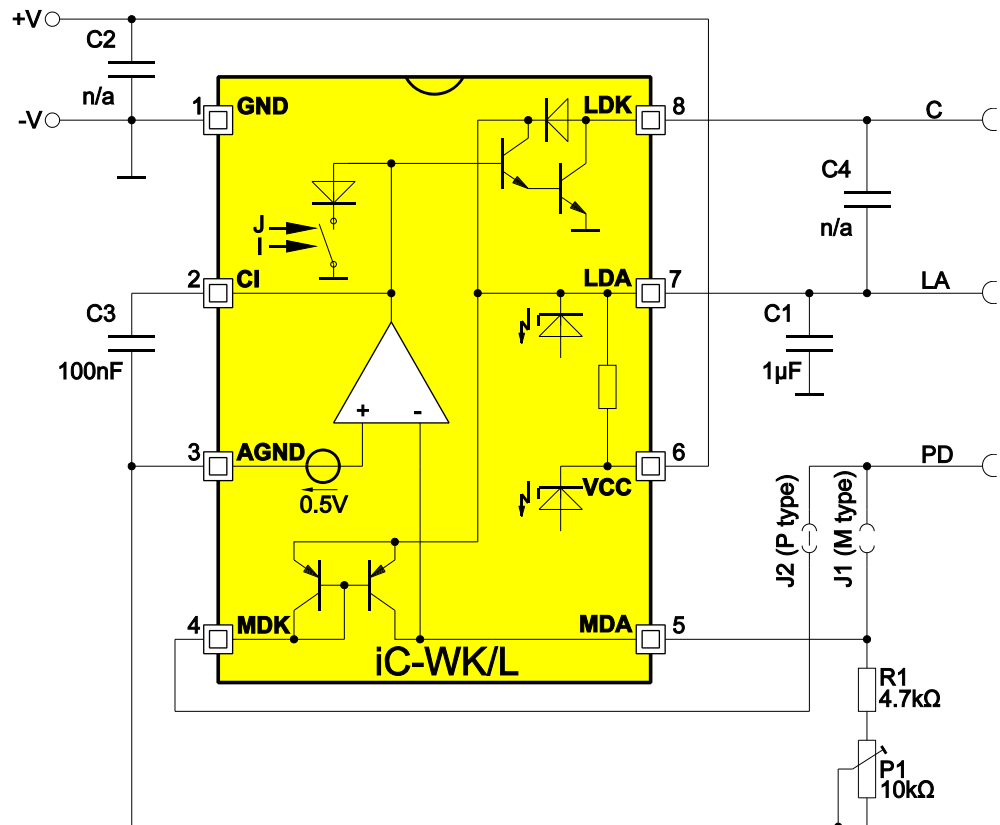
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BASIC ELECTRICAL CHARACTERISTICS

Operating Conditions VCC= 5V ±5%, Tj= 0..50°C, unless otherwise noted

Item	Symbol	Parameter	Conditions	Tj °C	Fig.				Unit
						Min.	Typ.	Max.	
Total Device									
001	VCC	Supply Voltage				2.4		5.5	V
002	I _{dc} (VCC)	VCC Supply Current without load path	closed control loop, I(PD)= 0, R _M = 200Ω, I(LA)= 60mA					5.5	mA
003	t _{on} ()	Turn-On Delay	VCC: 0V-5V to 95% I(LD); I(LD)= 70mA, C _I = 47nF I(LD)= 70mA, C _I = 100nF					70 150	μs μs

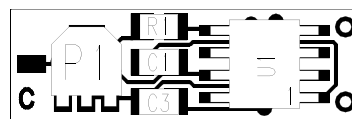
SCHEMATIC DIAGRAM



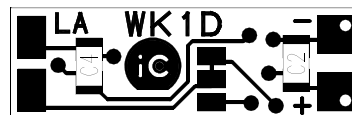
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DEVICE ASSEMBLY



TOP



BOTTOM

dra_wk1d_pack Assy

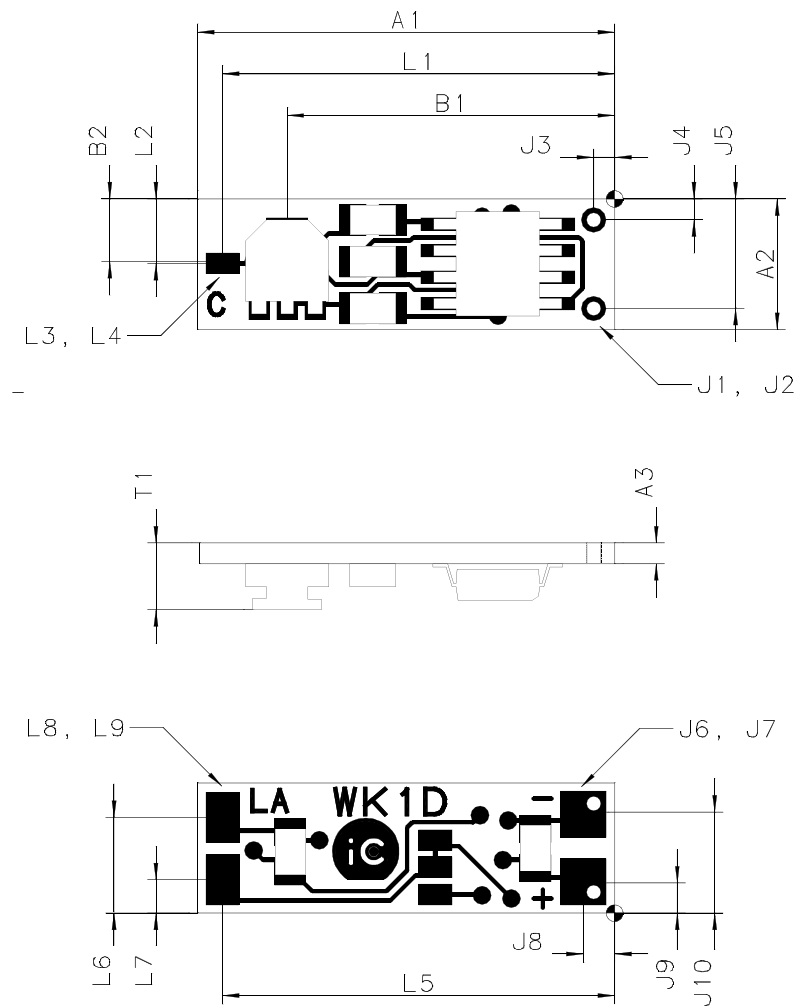
ASSEMBLY PART LIST

Item	Name	Device	Type/Value	Tolerance	Material	Comments	Package	Place- ment
01	U1	Laser Driver	iC-WK/L				SO8	TOP
04	R1	Resistor	4.7k	1%			RSMD0805	TOP
05	C1	Capacitor	1 μ F	10%			CSMD0805	TOP
06	C2	Capacitor	n. a.				CSMD0805	BOT
07	C3	Capacitor	100nF	20%			CSMD0805	TOP
08	C4	Capacitor	n. a.				CSMD0805	BOT
15	P1	Trimmer	10k	25%			meggit Typ 3165	TOP

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PHYSICAL DIMENSIONS (given in mm)



dra_wk1d_pack_neas

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DIMENSION TABLE

Item	Parameter	Comments					Unit
			Min.	Typ.	Max.	Tolerance	
	Substrate						
A1	Outline X			20.00		± 0.4	mm
A2	Outline Y			6.25		± 0.15	mm
A3	Substrate Thickness (incl CU and Solder Stop)		0.9		1.3		mm
	Trimmer Placement						
B1	Trimmer Position vs. Reference X	Axis of Trimmer		15.7		± 0.6	mm
B2	Trimmer Position vs. Reference Y	Axis of Trimmer		3.0		± 0.6	mm
	Power Connector						
J1	Drill Diameter			0.7		-0 / +0.1	mm
J2	Pad Diameter			1.2		± 0.05	mm
J3	Drill Position vs. Reference X (-V, +V)			1.0		± 0.3	mm
J4	Drill Position vs. Reference Y (+V)			1.0		± 0.15	mm
J5	Drill Position vs. Reference Y (-V)			5.25		± 0.15	mm
J6	Pad Size X (-V,+V)			2.2		± 0.05	mm
J7	Pad Size Y (-V,+V)			2.2		± 0.05	mm
J8	Center Pad vs. Reference X (-V, +V)			1.5		± 0.3	mm
J9	Center Pad vs. Reference Y (+V)			1.5		± 0.15	
J10	Center Pad vs. Reference Y (-V)			4.75		± 0.15	
	Laser Connector						
L1	Center Pad vs. Reference X (Common Pin)			18.8		± 0.3	mm
L2	Center Pad vs. Reference Y (Common Pin)			3.1		± 0.15	mm
L3	Pad Size X (Common Pin)			1.6		± 0.05	mm
L4	Pad Size Y (Common Pin)			1.0		± 0.05	mm
L5	Center Pad vs. Reference X (LA, PD)			18.8		± 0.3	mm
L6	Center Pad vs. Reference Y (LA)			4.6		± 0.15	mm
L7	Center Pad vs. Reference Y (PD)			1.6		± 0.15	mm
L8	Pad Size X (LA, PD)			1.6		± 0.05	mm
L9	Pad Size Y (LA, PH)			2.4		± 0.05	mm
	Thickness						
T1	Overall Thickness		3.1				mm

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REVISION HISTORY

Rev	Notes	Pages affected
A0	Initial version	all
A1	iC-WKL added	1-3
B1	Substrate Thickness A3 Max. value changed from 1.1 to 1.3	5

GENERAL HANDLING INSTRUCTIONS

Board micro system modules are not subject to dry pack delivery and are not intended for reflow soldering.

This specification is for a newly developed product. iC-Haus therefore reserves the right to modify data without further notice. Please contact us to ascertain the current data. The data specified is intended solely for the purpose of product description and is not to be deemed guaranteed in a legal sense. Any claims for damage against us - regardless of the legal basis - are excluded unless we are guilty of premeditation or gross negligence.

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