

TDK-Lambda
i7CxxA-C0 Series
Evaluation Kit



TDK-Lambda i7CxxA-C0 Series Evaluation Kit Instruction Manual

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TDK-Lambda

TDK-Lambda i7CxxA-C0 Series Evaluation Kit



Specifications

- Product Name: i7X Series Non-Isolated DC-DC Power Modules
- Available Evaluation Kits: i7C08A-C03-EVK-S1, i7C12A-C03-EVK-S1, i7C20A-C03-EVK-S1, i7A20A-C01-EVK-S1, i7A33A-C01-EVK-S1, i7A45A-C01-EVK-S1, i7A60A-C01-EVK-S1, and I7X-C01-EVK-S0
- Input Voltage Range: Varies based on module type
- Output Voltage Range: Varies based on module type
- Output Current (max): Varies based on module type
- Output Power (Max): Varies based on module type

Introduction

This evaluation kit has been designed to provide an easy way to characterize the product's performance and its features. It is intended to aid customers and determine the product's suitability for the target application. The evaluation board incorporates the required external components to demonstrate the complete product functionality. It also includes other components (e.g., test points) to facilitate a successful end-user experience. Not all these external components are required if the product features are not needed. Details of the external components, schematics, and PCB layout are provided in this documentation for reference only. Final design and qualification need to be verified at the customer's end, system level.

Ordering Information

TDK-Lambda offers a wide variety of non-isolated DC-DC power modules in the i7X series. Not every product is currently available in an evaluation kit. The table below includes descriptions and ratings that should help in selecting the most applicable evaluation kit.

Evaluation Kit Part Number	Non-Isolated DC-DC Module (Included and Mounted on the Evaluation Board)					
	DC-DC Module Part Number	Type	I/P Range	O/P Range	O/P Current (max)	O/P Power (Max)
i7C08A-C03-EVK-S1	i7C4W008A120V-003-R	Buck-Boost	9 – 53 V	9.6 – 48 V	8 A	300 W
i7C12A-C03-EVK-S1	i7C4W012A050V-003-R	Buck-Boost	9 – 53 V	5.0 – 28 V	12.5 A	300 W
i7C20A-C03-EVK-S1	i7C2W020A120V-003-R i7C2W020A120V-0C3-R i7C2W020A120V-0F3-R	Buck-Boost	9 – 36 V	8.0 – 24 V	20 A	300 W
i7A20A-C01-EVK-S1	i7A48020A033V-001-R	Buck	28 – 60 V	3.6* – 32 V	20 A	500 W
i7A33A-C01-EVK-S1	i7A4W033A033V-001-R	Buck	18 – 60 V	3.6* – 24 V	33 A	500 W
i7A45A-C01-EVK-S1	i7A24045A033V-001-R	Buck	18 – 32 V	3.6* – 18 V	45 A	750 W
i7A60A-C01-EVK-S1	i7A12060A008V-001-R	Buck	9 – 18 V	1.0** – 8 V	60 A	400 W
i7X-C01-EVK-S0	No Module Installed	The evaluation board can be used for the RGB and RGC Series.				

The installed power module can be adjusted to 3.3V. The standard EV kit configuration supports operation down to 3.6V. Contact technical support if a lower voltage is needed. The installed power module can be adjusted to 0.8V. The standard EV kit configuration supports operation down to 1.0V. Contact technical support if a lower voltage is needed.

IMPORTANT INFORMATION

- Observe proper safety and laboratory procedures when testing electronic products. This list serves as a general guide only and not a substitute for common sense and best practices.
- Before applying power, double-check and ensure all connections to the evaluation board interface are correct (e.g., Input source polarity connections, etc).
- This evaluation board is not populated with an input fuse. An input fuse can be populated in PCB location F1. Check the product specifications for the input fuse ratings and the evaluation board schematics included in this manual. Make sure the existing jumper connections, BB4 and BB5, are removed when adding the fuse.
- Although highly efficient, these high-power density modules can dissipate significant amounts of power,

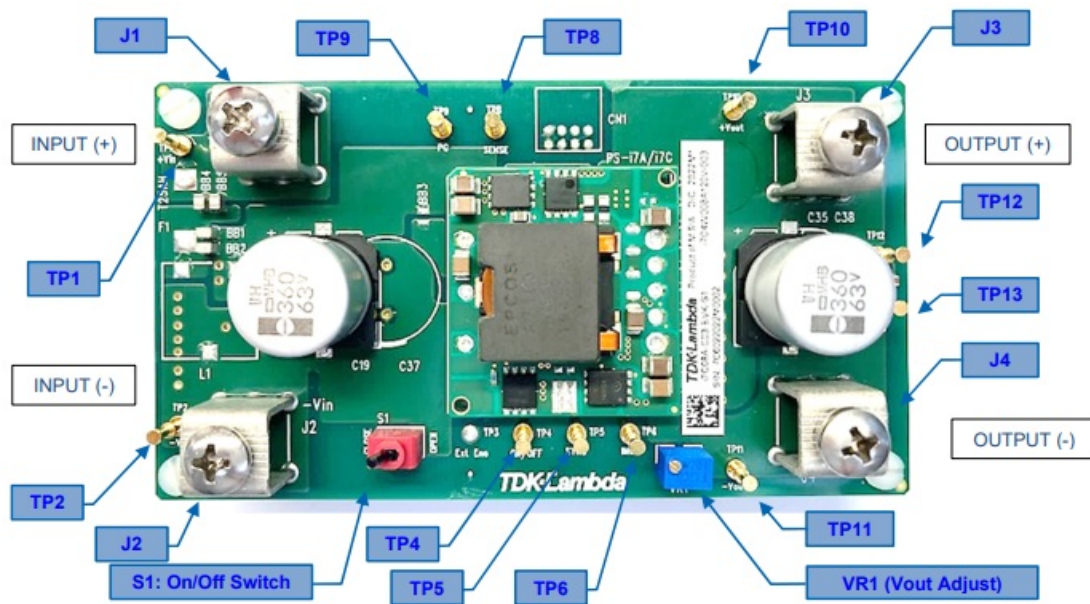
especially at heavy loads. Care should be taken to ensure adequate cooling is provided and the modules are operated within the thermal specifications outlined in the product data sheets. Heat sink base-plated versions of the i7X family are available for use in demanding environments.

- This evaluation kit is designed for general laboratory use. It is not intended for installation in end customer products or equipment.
- Please check the pertinent product (DC-DC Module) datasheets and specifications for complete information.

General Features

- Screw Terminals for secured input and output connections
- Toggle switch for Remote ON/OFF
- Test points / Scope probe hook-ups for ease of measurement
- Trim Potentiometer for adjusting the output voltage setting
- Component PCB pad provisions for: Input fuse, input inductor, additional input and output capacitance*, output header connector for optional features and signals.

Note that the output capacitor value may need to be adjusted to meet the transient response or ripple requirements of the final application. Refer to the product data sheet for a range of acceptable values.



Test Point	Description	Test Point	Description
TP1	Vin (+)	TP8	SENSE +
TP2	Vin (-) / GND	TP9	PGOOD : Only for i7C
TP3	<i>Not Populated</i>	TP10	Vout (+)
TP4	ON / OFF	TP11	Vout (-) / GND
TP5	SYNC: Only for i7C (Frequency Synchronization)	TP12	Vout (+) – for Output Ripple Measurement
TP6	I_MON: Only for i7C (Output Current Monitor)	TP13	Vout (-) / GND – for Output Ripple Measurement

Note: Depending on the model series (e.g., i7C, i7A), not all Test Points (TP) are applicable. Please double-check the individual product series datasheets for the features that it supports.

Screw Terminal	Description	Screw Terminal	Description
J1	Vin (+)	J3	Vout (+)
J2	Vin (-) / GND	J4	Vout (-) / GND

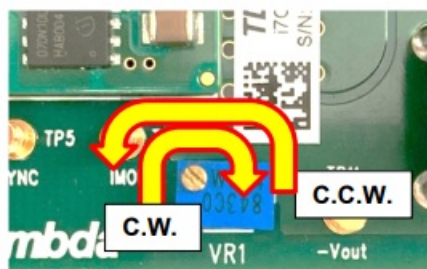
Turn-on / Turn-off module by switch



Change the position of the toggle switch” S1” to “CLOSE” to turn on the power supply unit.

Change Output Voltage

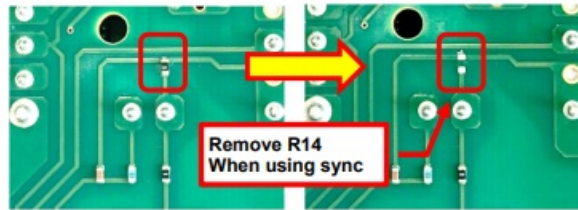
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Turn screw on trimmer pot “VR1” to change the output voltage.

- Turn clockwise to decrease the output voltage.
- Turn counterclockwise to increase output voltage.

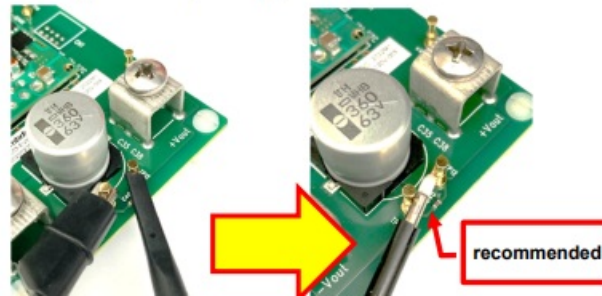
When using an external clock (SYNC function only for i7C)



SYNC function default setting is disabled. Please remove resistor "R14" on the bottom side of the board to enable the SYNC function.

Capture the output ripple/noise waveform

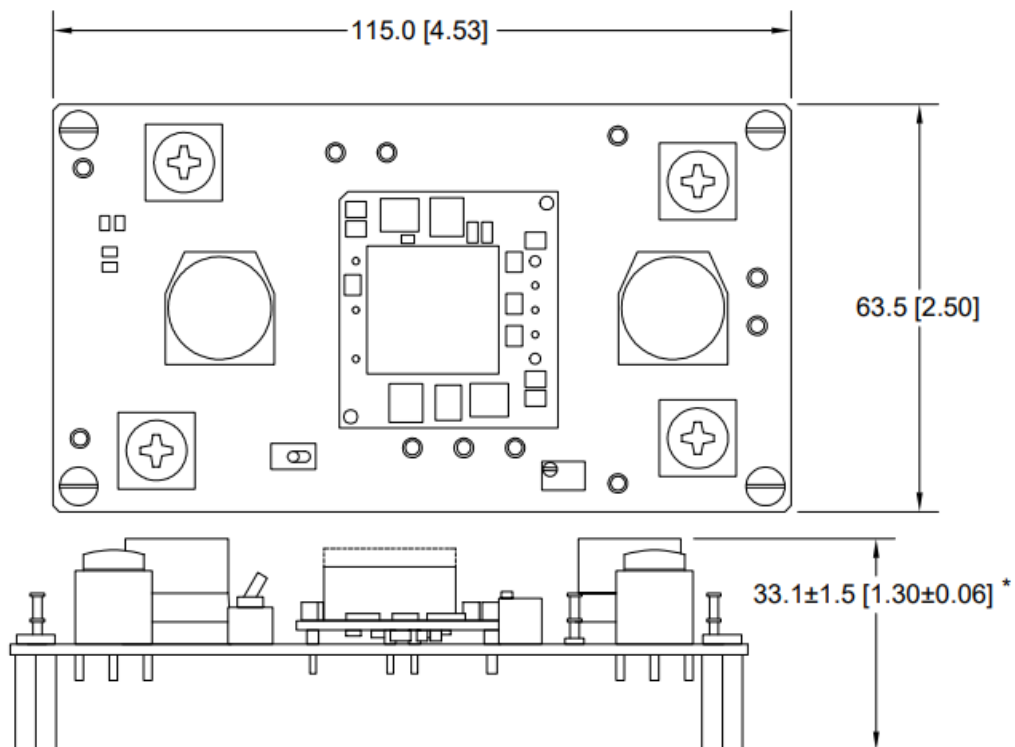
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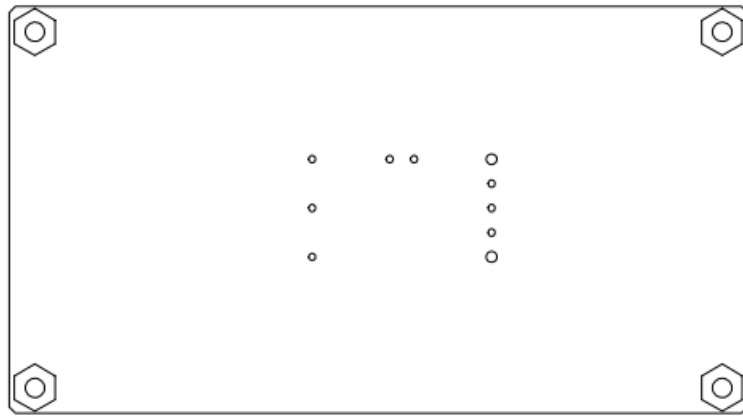
Please use TP12 and TP13 to measure output ripple/spike.

- Wired GND clip may pick up higher spike noise.
- Use the bare probe to minimize spike noise.
- Please ensure proper polarity when connecting.
- TP12 is Vout (+) / TP13 is GND.

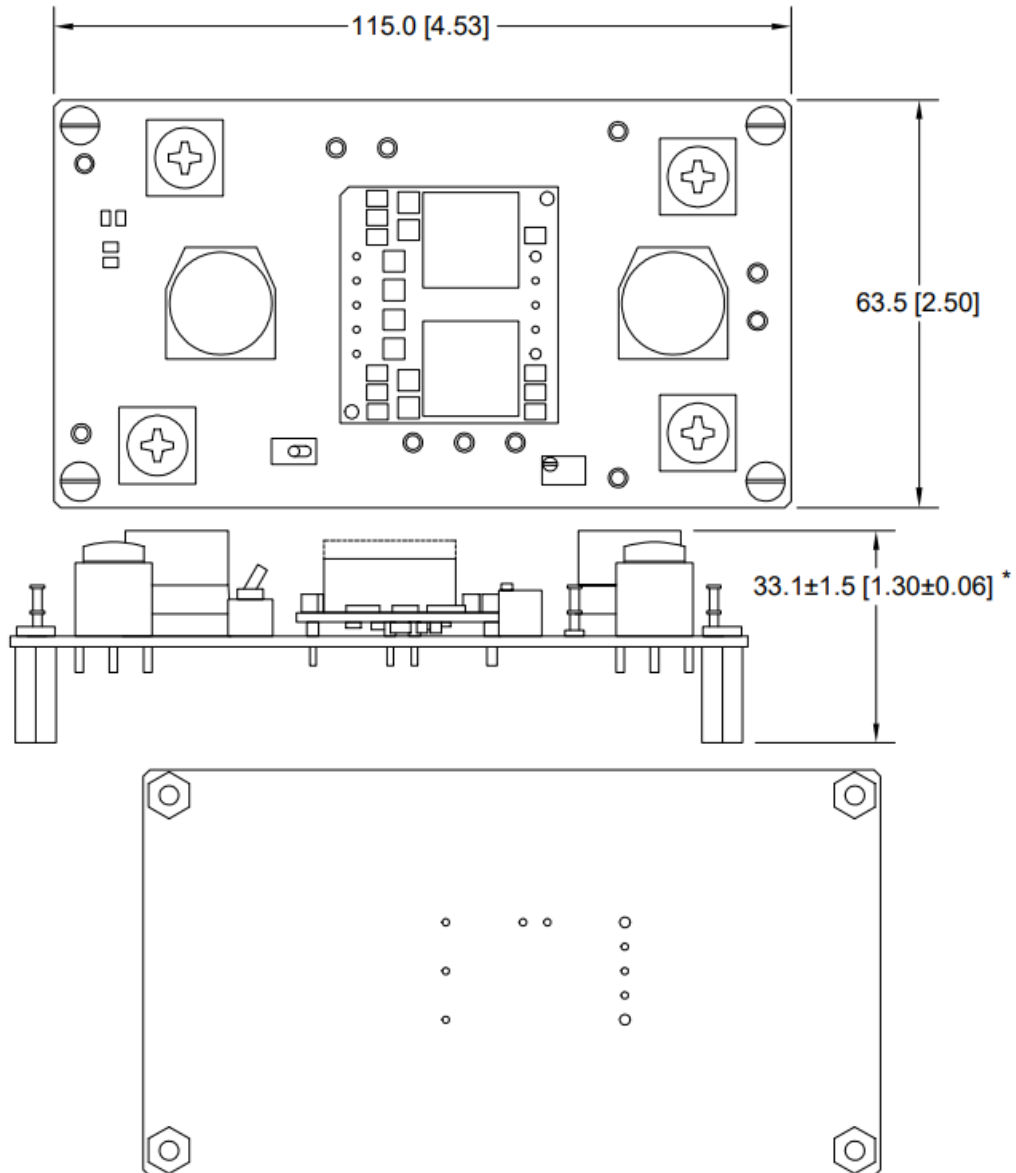
Mechanical Outline – i7CxxA-C03-EVK-S1



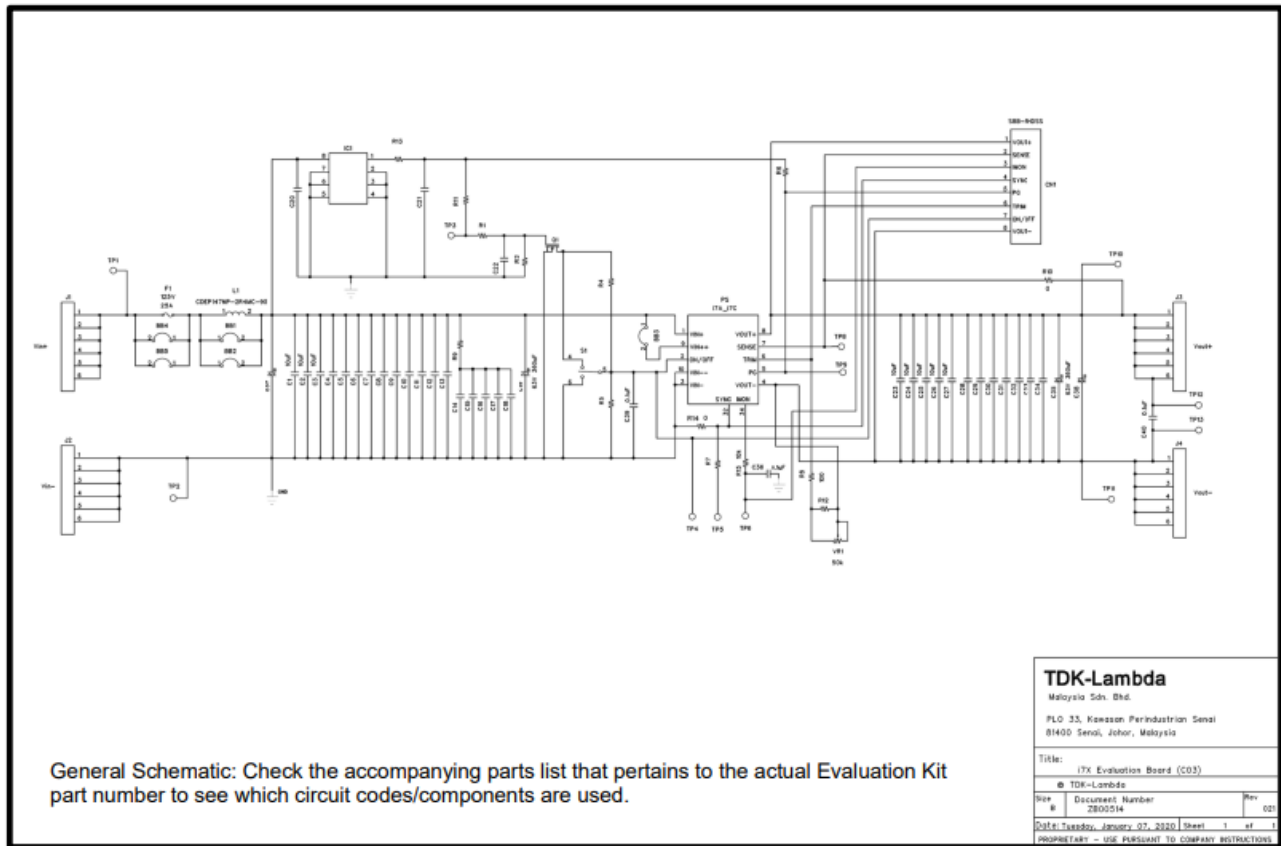
The overall height for the evaluation kit, pn: I7C20A-C03-EV 1, can vary up to 41.5 ± 1.5 mm [1.63 ± 0.06 in]. Specific height depends on the type of module installed, whether it's an open frame, heats, ink, or baseplate version.



Mechanical Outline – i7AxxA-C01-EVK-S1

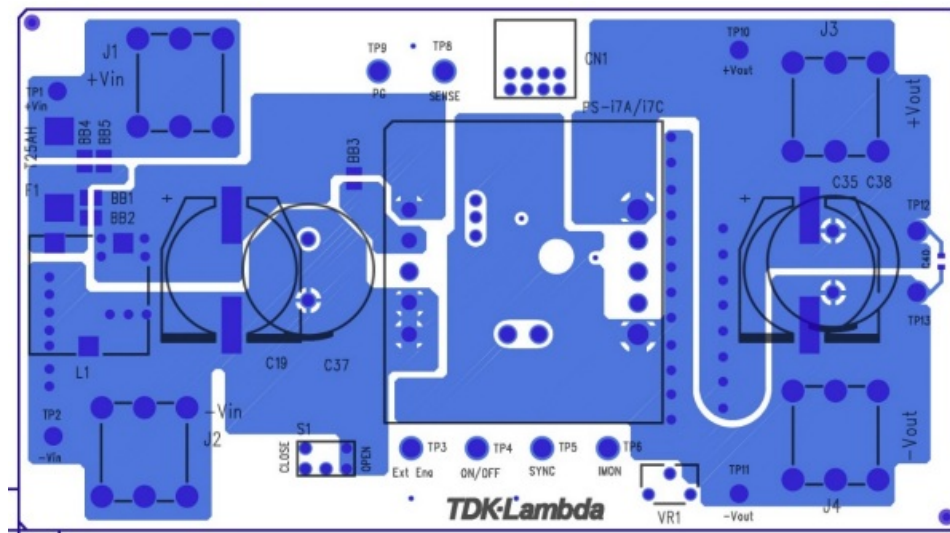


Schematic

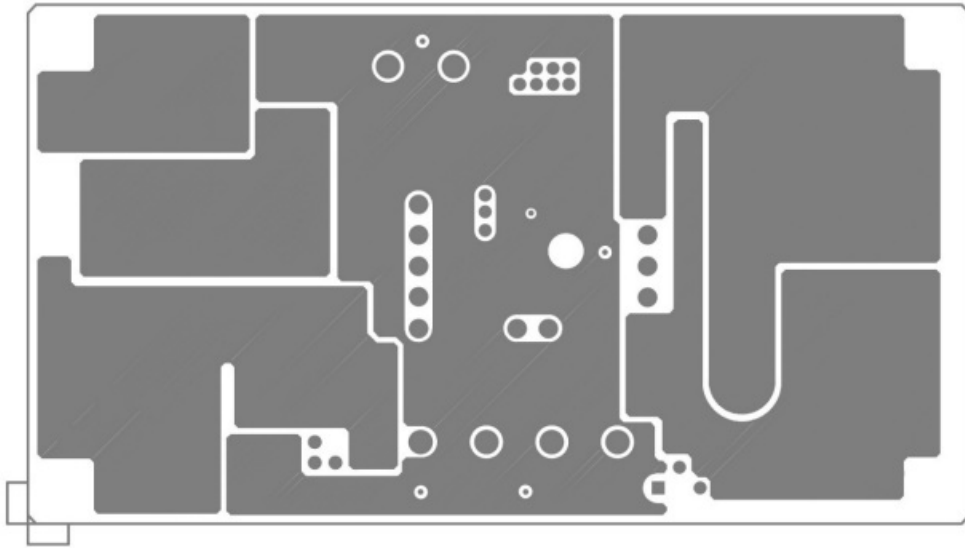


PCB Layout

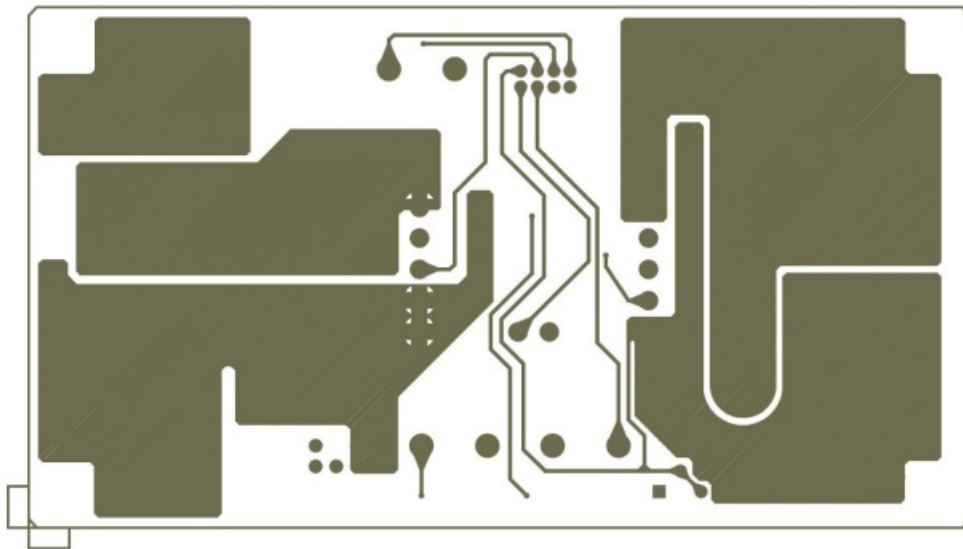
Top Layer



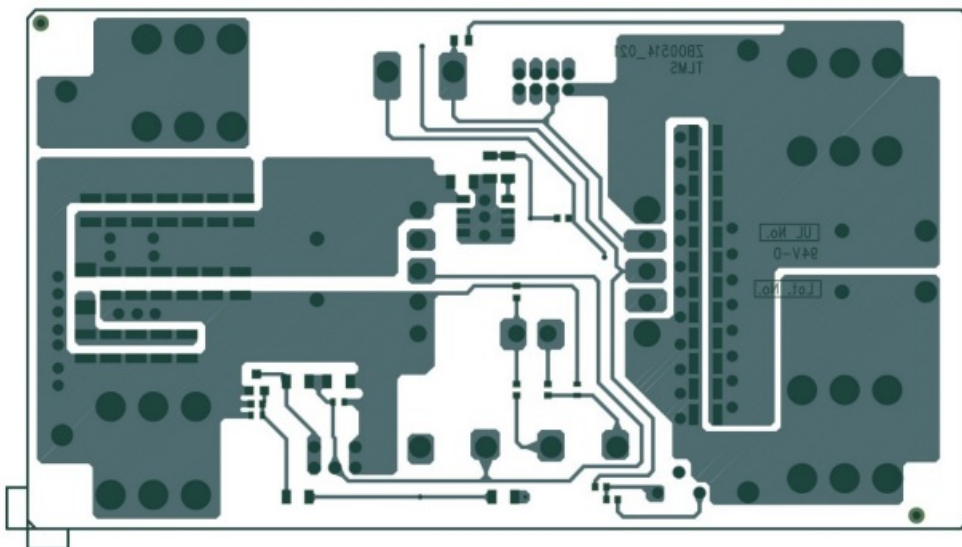
Layer 2



Layer 3



Bottom



Parts List: i7CxxA-C03-EVK-S1

Evaluation Kit Part Number	i7C08A-C03-EVK-S1	i7C12A-C03-EVK-S1	i7C20A-C03-EVK-S1
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Sche matic Circu it Code	Part Type	Manufactur er (Mfr)	Mfr Part No.	Manufactur er (Mfr)	Mfr Part No.	Manufactur er (Mfr)	Mfr Part No.
i7A_i7 C	DC-DC Mo dule	TDK Lambda	i7C4W008A 120V-003-R	TDK Lambda	i7C4W012A0 50V-003-R	TDK Lambda	i7C2W020A1 20V-003-R
Q1	Transister	OMIT		OMIT		OMIT	
C1	Capacitor	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER71 J106MA12L
C2	Capacitor	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER71 J106MA12L
C3	Capacitor	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER71 J106MA12L
C4-C 13	Capacitor	OMIT		OMIT		MURATA	GRM32ER71 J106MA12L
C14- C18	Capacitor	OMIT		OMIT		OMIT	
C19	Capacitor	NI-CHEMI	EMHB630A RA361MLH0 S	NI-CHEMI	EMHB630A RA361MLH0 S	Panasonic	EEEFK1H10 2AM
C20- C22	Capacitor	OMIT		OMIT		OMIT	
C23	Capacitor	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER71 J106MA12L
C24	Capacitor	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER71 J106MA12L
C25	Capacitor	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER71 J106MA12L
C26	Capacitor	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER71 J106MA12L
C27	Capacitor	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER71 J106MA12L
C28- C34	Capacitor	OMIT		OMIT		MURATA	GRM32ER71 J106MA12L
C35	Capacitor	NI-CHEMI	EMHB630A RA361MLH0 S	NI-CHEMI	EMHB630A RA361MLH0 S	Panasonic	EEEFK1H10 2AM

C36	Capacitor	TDK	C1608X7S2 A104KT	TDK	C1608X7S2 A104KT	TDK	C1608X7S2 A104KT
C37- C38	Capacitor	OMIT		OMIT		OMIT	
C39	Capacitor	TDK	C1608X7S2 A104KT	TDK	C1608X7S2 A104KT	TDK	C1608X7S2 A104KT
C40	Capacitor	TDK	C1608X7S2 A104KT	TDK	C1608X7S2 A104KT	TDK	C1608X7S2 A104KT
F1	Fuse	OMIT		OMIT		OMIT	
BB1	Copper Pin	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01
BB2	Copper Pin	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01
BB3	Copper Pin	OMIT		OMIT		OMIT	
BB4	Copper Pin	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01
BB5	Copper Pin	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01
IC1	LDO	OMIT		OMIT		OMIT	
VR1	Resistor	BOURNS	3266W-1-20 4LF	BOURNS	3266W-1-50 3LF	BOURNS	3266W-1-50 3LF
L1	Inductor	OMIT		OMIT		OMIT	
R1-R 6	Resistor	OMIT		OMIT		OMIT	
R7	Resistor	KOA	RK73Z1JTT D	KOA	RK73Z1JTT D	KOA	RK73Z1JTT D
R8	Resistor	KOA	RK73H1JTT D21R5F	KOA	RK73H1JTT D3010F	KOA	RK73H1JTT D51R0F
R9	Resistor	OMIT		OMIT		OMIT	
R10	Resistor	KOA	RK73Z2ATT D	KOA	RK73Z2ATT D	KOA	RK73Z2ATT D

R11	Resistor	OMIT		OMIT		OMIT	
R12	Resistor	KOA	RK73H1JTT D3323F	OMIT		KOA	RK73H1JTT D1002D
R13	Resistor	OMIT		OMIT		OMIT	
R14	Resistor	KOA	RK73Z1JTT D	KOA	RK73Z1JTT D	KOA	RK73Z1JTT D
R15	Resistor	KOA	RK73H1JTT D1002D	KOA	RK73H1JTT D1002D	KOA	RK73H1JTT D1002D
CN1	Connector	OMIT		OMIT		OMIT	
S1	Switch	LIGHT COU NTRY	2US1T1A1M 2RES	LIGHT COU NTRY	2US1T1A1M 2RES	LIGHT COU NTRY	2US1T1A1M 2RES
J1	Terminal	KEYSTONE	8196	KEYSTONE	8196	KEYSTONE	8196
J2	Terminal	KEYSTONE	8196	KEYSTONE	8196	KEYSTONE	8196
J3	Terminal	KEYSTONE	8196	KEYSTONE	8196	KEYSTONE	8196
J4	Terminal	KEYSTONE	8196	KEYSTONE	8196	KEYSTONE	8196
TP1	Test Point	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP2	Test Point	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP3	Test Point	OMIT		OMIT		OMIT	
TP4	Test Point	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP5	Test Point	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP6	Test Point	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP8	Test Point	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP9	Test Point	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP10	Test Point	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP11	Test Point	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP12	Test Point	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP13	Test Point	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
SCR1	Screw	KEYSTONE	9427	KEYSTONE	9427	KEYSTONE	9427

SCR2	Screw	KEYSTONE	9427	KEYSTONE	9427	KEYSTONE	9427
SCR3	Screw	KEYSTONE	9427	KEYSTONE	9427	KEYSTONE	9427
SCR4	Screw	KEYSTONE	9427	KEYSTONE	9427	KEYSTONE	9427
SO1	Spacer	KEYSTONE	1902C	KEYSTONE	1902C	KEYSTONE	1902C
SO2	Spacer	KEYSTONE	1902C	KEYSTONE	1902C	KEYSTONE	1902C
SO3	Spacer	KEYSTONE	1902C	KEYSTONE	1902C	KEYSTONE	1902C
SO4	Spacer	KEYSTONE	1902C	KEYSTONE	1902C	KEYSTONE	1902C

Parts List: i7AxxA-C01-EVK-S1

Evaluation Kit Part Number		i7A33A-C01-EVK-S1		i7A45A-C01-EVK-S1		i7A60A-C01-EVK-S1	
Schematic Circuit Code	Part Type	Manufacturer (Mfr)	Mfr Part No.	Manufacturer (Mfr)	Mfr Part No.	Manufacturer (Mfr)	Mfr Part No.
i7A_i7C	DC-DC Module	TDK Lambda	i7A4W033A033V-001-R	TDK Lambda	i7A24045A033V-001-R	TDK Lambda	i7A12060A008V-001-R
Q1	Transistor	OMIT		OMIT		OMIT	
C1	Capacitor	TDK	C3225X7R1N106M250AC	TDK	C3225X7R1N106M250AC	TDK	C3225X7R1N106M250AC
C2	Capacitor	TDK	C3225X7R1N106M250AC	TDK	C3225X7R1N106M250AC	TDK	C3225X7R1N106M250AC
C3	Capacitor	TDK	C3225X7R1N106M250AC	TDK	C3225X7R1N106M250AC	TDK	C3225X7R1N106M250AC
C4	Capacitor	TDK	C3225X7R1N106M250AC	TDK	C3225X7R1N106M250AC	TDK	C3225X7R1N106M250AC
C5	Capacitor	TDK	C3225X7R1N106M250AC	TDK	C3225X7R1N106M250AC	TDK	C3225X7R1N106M250AC
C6	Capacitor	TDK	C3225X7R1N106M250AC	TDK	C3225X7R1N106M250AC	TDK	C3225X7R1N106M250AC

C7	Capacitor	TDK	C3225X7R1 N106M250A C	TDK	C3225X7R1 N106M250A C	TDK	C3225X7R1 N106M250A C
C8	Capacitor	TDK	C3225X7R1 N106M250A C	TDK	C3225X7R1 N106M250A C	TDK	C3225X7R1 N106M250A C
C9	Capacitor	TDK	C3225X7R1 N106M250A C	TDK	C3225X7R1 N106M250A C	TDK	C3225X7R1 N106M250A C
C10- C12	Capacitor	OMIT		OMIT		OMIT	
C13	Capacitor	TDK	C3225X7R1 N106M250A C	TDK	C3225X7R1 N106M250A C	TDK	C3225X7R1 N106M250A C
C14- C18	Capacitor	OMIT		OMIT		OMIT	
C19	Capacitor	NI-CHEMI	EMHS800A RA271MLH0 S	NI-CHEMI	EMHS800A RA271MLH0 S	NI-CHEMI	EMHB630AR A361MLH0S
C20- C22	Capacitor	OMIT		OMIT		OMIT	
C23	Capacitor	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER71 J106MA12L
C24	Capacitor	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER71 J106MA12L
C25	Capacitor	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER71 J106MA12L
C26	Capacitor	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER71 J106MA12L
C27	Capacitor	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER7 1J106MA12L	MURATA	GRM32ER71 J106MA12L
C28	Capacitor	OMIT		OMIT		MURATA	GRM32ER71 J106MA12L
C29	Capacitor	OMIT		OMIT		MURATA	GRM32ER71 J106MA12L
C30- C34	Capacitor	OMIT		OMIT		OMIT	
C35	Capacitor	NI-CHEMI	EMHB630A RA361MLH0 S	NI-CHEMI	EMHB630A RA361MLH0 S	NI-CHEMI	EMHB630AR A361MLH0S
C36	Capacitor	OMIT		OMIT		OMIT	
C37- C38	Capacitor	OMIT		OMIT		OMIT	
C39	Capacitor	OMIT		OMIT		OMIT	

C40	Capacitor	TDK	C1608X7S2 A104KT	TDK	C1608X7S2 A104KT	TDK	C1608X7S2A 104KT
F1	OMIT						
BB1	Copper Pin	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01
BB2	Copper Pin	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01
BB3	Copper Pin	OMIT		ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01
BB4	Copper Pin	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01
BB5	Copper Pin	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01	ROWLEY S PRING	ZP00185_01
IC1	OMIT						
VR1	Resistor	BOURNS	3266W-1-50 3LF	BOURNS	3266W-1-50 3LF	BOURNS	3266W-1-50 3LF
L1	OMIT						
R1-R 7	OMIT						
R8	Resistor	KOA	RK73H1JTT D40R2F	KOA	RK73H1JTT D2490F	KOA	RK73H1JTT D1400F
R9	OMIT						
R10	Resistor	KOA	RK73H1JTT D1R00F	KOA	RK73H1JTT D1R00F	KOA	RK73H1JTT D1R00F
R11- R15	OMIT						
CN1	OMIT						
S1	Switch	LIGHT COU NTRY	2US1T1A1M 2RES	LIGHT COU NTRY	2US1T1A1M 2RES	LIGHT COU NTRY	2US1T1A1M 2RES
J1-J4	Screws & T erminals	KEYSTONE	8196	KEYSTONE	8196	KEYSTONE	8196
TP1	Test Point: Vin(+)	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP2	Test Point: Vin(-)	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP3	OMIT						
TP4	Test Point: On/Off	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP5	OMIT						
TP6	OMIT						

TP8	Test Point: SENSE+	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP9	OMIT						
TP10	Test Point: Vout(+)	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP11	Test Point: Vout(-)	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP12	Test Point: Vout(+)	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
TP13	Test Point: Vout(-)	MAC8	WT-2-2	MAC8	WT-2-2	MAC8	WT-2-2
SCR1- SCR 4	Screws for Standoffs	KEYSTONE	9427	KEYSTONE	9427	KEYSTONE	9427
SO1- SO4	Standoffs	KEYSTONE	1902C	KEYSTONE	1902C	KEYSTONE	1902C

Parts List: i7AxxA-C01-EVK-S1 (Continued)

Evaluation Kit Part Number		i7A20A-C01-EVK-S1	
Schematic Circuit Code	Part Type	Manufacturer (Mfr)	Mfr Part No.
I7A_I7C	DC-DC Module	TDK Lambda	I7A48020A033V-001-R
Q1	Transistor	OMIT	
C1	Capacitor	TDK	C3225X7S2A475KT
C2	Capacitor	TDK	C3225X7S2A475KT
C3	Capacitor	TDK	C3225X7S2A475KT
C4	Capacitor	TDK	C3225X7S2A475KT
C5	Capacitor	TDK	C3225X7S2A475KT
C6	Capacitor	TDK	C3225X7S2A475KT
C7	Capacitor	TDK	C3225X7S2A475KT
C8	Capacitor	TDK	C3225X7S2A475KT
C9	Capacitor	TDK	C3225X7S2A475KT
C10-C12	Capacitor	TDK	C3225X7S2A475KT
C13	Capacitor	TDK	C3225X7S2A475KT
C14-C18	Capacitor	OMIT	
C19	Capacitor	NI-CHEMI	EMHB101ARA221MLN0S
C20-C22	Capacitor	OMIT	
C23	Capacitor	MURATA	GRM32ER71J106MA12L
C24	Capacitor	MURATA	GRM32ER71J106MA12L
C25	Capacitor	MURATA	GRM32ER71J106MA12L
C26	Capacitor	MURATA	GRM32ER71J106MA12L
C27	Capacitor	MURATA	GRM32ER71J106MA12L
C28	Capacitor	MURATA	GRM32ER71J106MA12L
C29	Capacitor	MURATA	GRM32ER71J106MA12L
C30-C34	Capacitor	OMIT	
C35	Capacitor	NI-CHEMI	EMHB630ARA361MLH0S
C36	Capacitor	OMIT	
C37-C38	Capacitor	OMIT	
C39	Capacitor	OMIT	
C40	Capacitor	TDK	C1608X7S2A104KT
F1	OMIT		
BB1	Copper Pin	ROWLEY SPRING	ZP00185_01
BB2	Copper Pin	ROWLEY SPRING	ZP00185_01
BB3	Copper Pin	OMIT	
BB4	Copper Pin	ROWLEY SPRING	ZP00185_01
BB5	Copper Pin	ROWLEY SPRING	ZP00185_01
IC1	OMIT		
VR1	Resistor	BOURNS	3266W-1-503LF
L1	OMIT		
R1-R7	OMIT		
R8	Resistor	KOA	RK73H1JTTD56R0F
R9	OMIT		
R10	Resistor	KOA	RK73H1JTTD1R00F
R11-R15	OMIT		
CN1	OMIT		
S1	Switch	LIGHT COUNTRY	2US1T1A1M2RES
J1-J4	Screws & Terminals	KEYSTONE	8196
TP1	Test Point: Vin(+)	MAC8	WT-2-2
TP2	Test Point: Vin(-)	MAC8	WT-2-2
TP3	OMIT		
TP4	Test Point: On/Off	MAC8	WT-2-2
TP5	OMIT		
TP6	OMIT		
TP8	Test Point: SENSE+	MAC8	WT-2-2
TP9	OMIT		
TP10	Test Point: Vout(+)	MAC8	WT-2-2
TP11	Test Point: Vout(-)	MAC8	WT-2-2
TP12	Test Point: Vout(+)	MAC8	WT-2-2
TP13	Test Point: Vout(-)	MAC8	WT-2-2
SCR1-SCR4	Screws for Standoffs	KEYSTONE	9427
SO1-SO4	Standoffs	KEYSTONE	1902C

TDK-Lambda Americas

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For Additional Information, please visit <https://product.tdk.com/en/power/>



FAQs

Q: Can the installed power module be adjusted to a voltage lower than 3.3V?

A: Yes, the installed power module can be adjusted to lower voltages. Contact technical support for assistance.

Q: Is an input fuse included in the evaluation board?

A: The evaluation board is not populated with an input fuse, but can be added in PCB location F1. Refer to the product specifications for input fuse ratings.

Q: What is the intended use of the evaluation kit?

A: The evaluation kit is intended for general laboratory use and not for installation in end customer products or equipment.

Documents / Resources

	TDK-Lambda i7CxxA-C0 Series Evaluation Kit [pdf] Instruction Manual i7CxxA-C03-EVK-S1, i7AxxA-C01-EVK-S1, i7X-C01-EVK-S0, i7CxxA-C0 Series Evaluation Kit, i7CxxA-C0 Series, Evaluation Kit, Kit
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References

- [TLF soluzioni per l'arredo urbano, giochi inclusivi per parchi, composizioni multigioco e attrezzatura sportiva. - TLF s.r.l.](#)
- [TLF.nl](#)
- [-](#)
- [Home - TDK-Lambda Singapore | Industrial/medical power supplies | AC-DC | DC-DC | CVCC | EMI filters](#)
- [Home | TDK Electronics - TDK Europe](#)
- [User Manual](#)

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