ZWQ80 (Forced Air Cooling) Specifications

ITEMS/UNITS			MODEL	ZWQ80-5225				ZWQ80-5222				ZWQ80-5224				ZWQ80-5223			
			CH	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input	Current (100/200VAC) (typ)	(*3)	A	1.6 / 0.8															
Output	Nominal Voltage		V	+5	+12	-12	+5	+5	+12	-12	+12	+5	+12	-12	+24	+5	+12	-12	+3.3
	Minimum Current	(*1)	A	1.4	0	0	0	1.4	0	0	0	1.4	0	0	0	1.4	0	0	9.0
	Maximum Current		A	10.0	2.5	2.5	9.0	10.0	2.5	2.5	4.0	10.0	2.5	2.5	2.0	10.0	2.5	2.5	9.0
	Total Allowable Power	(*2)	W	104				104				104				88.7			
Environment	Operating Temperature	(*4)		-10 to +70 (-10 to+50 : 100%, +70 : 50%)															
	Cooling	(*5)		Forced air cooling															

(*1) For V2, V3,V4 stability, require minimum output current of V1.
When it is using under condition of forced air cooling, V1 minimum output current is same as convection cooling.

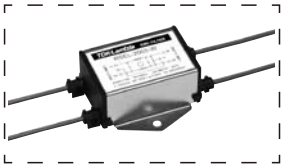
(*2) Allowable output power is changed according to V4 voltage (ZWQ-5225 and -5223 only), refer to derating table.

(*3) At 100/200VAC, Ta=25℃ total allowable output power.

(*4) At standard mounting.
- Load (%) is percent of total allowable output power or each maximum output current, whichever is greater.
For other mountings, refer to derating curve.

(*5) Air flow > 0.85m³/min (30cfm)

●Recommended EMC Filter



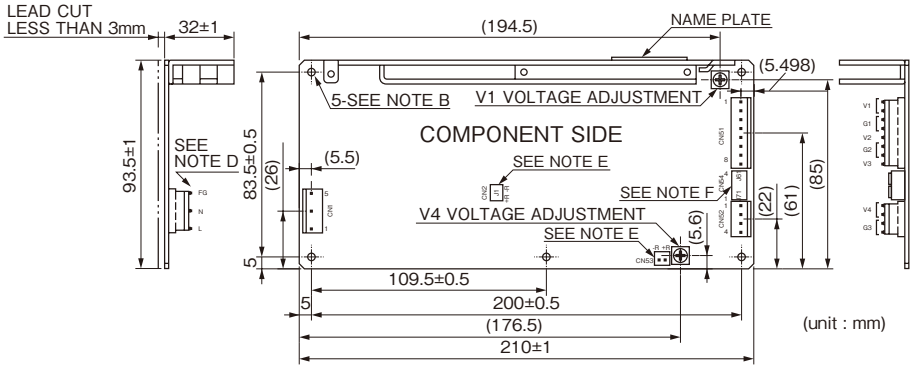
RSEL-2003W

Please refer to "TDK-Lambda EMC Filters" catalog.

ZWQ

Outline Drawing

【ZWQ80】



= NOTES =
A: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND COUNTRY OF MANUFACTURE ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.
B: 5-ϕ3.5 HOLES FOR CUSTOMER'S CHASSIS MOUNTING HOLES. ALL MUST BE SCREWED IN ORDER TO CONFORM THE VIBRATION SPEC.
C: KEEP THE DISTANCE MORE THAN 4mm BETWEEN PCB EDGE AND CUSTOMER'S CHASSIS.
D: FG IS FOR SAFETY GROUND CONNECTION.
E: REMOTE ON/OFF CONTROL CONNECTOR (CN2, 53)
: B2B-XH-AM (J.S.T.)
MATCHING HOUSING : XHP-2 (J.S.T.)
MATCHING TERMINAL : BXH-001T-P0.6 (J.S.T.) OR SXH-001T-P0.6 (J.S.T.)
*CN2 IS NORMALLY SHORTED BY JM-2W-96 (J.S.T.).
F: CONNECTOR TO CHANGE V2,V3 OUTPUT VOLTAGE (CN54) : B4B-XH-AM (J.S.T.)
J61 SHORT : V2 OUTPUT VOLTAGE IS +12V.(*)
J61 OPEN : V2 OUTPUT VOLTAGE IS +15V.
J71 SHORT : V3 OUTPUT VOLTAGE IS -12V.(*)
J71 OPEN : V3 OUTPUT VOLTAGE IS -15V.
*J61 AND J71 ARE NORMALLY SHORTED BY JM-2W-96 (J.S.T.).

CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B3P-5-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B8P-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN52)	B4P-VH	J.S.T.	1

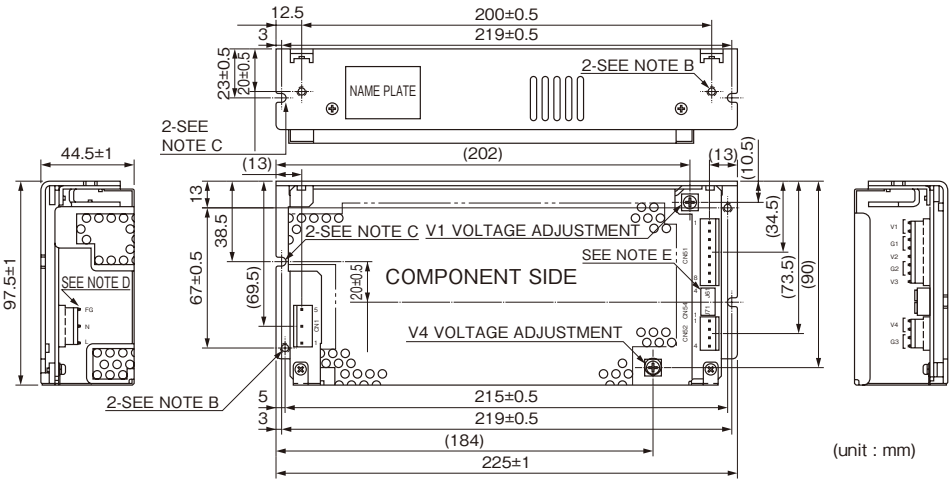
*OUTPUT CURRENT OF EACH CONNECTOR PIN MUST BE LESS THAN 5A.

MATCHING HOUSINGS & PINS (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VHR-5N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-8N	J.S.T.	1
SOCKET HOUSING (CN52)	VHR-4N	J.S.T.	1
TERMINAL PINS (CN1, 51, 52)	SVH-21T-P1.1	J.S.T.	15

HAND CRIMPING TOOL: YC-160R MANUFACT. : J.S.T.

【ZWQ80/A】



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A: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND COUNTRY OF MANUFACTURE ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.
B: M4 EMBOSSED, TAPPED AND COUNTERSUNK HOLES (4) FOR CUSTOMER'S CHASSIS MOUNTING. SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 6mm.
C: ϕ4.5 HOLE FOR CUSTOMER'S CHASSIS MOUNTING. (USE M4 MOUNTING SCREW.)
D: FG IS FOR SAFETY GROUND CONNECTION.
E: CONNECTOR TO CHANGE V2,V3 OUTPUT VOLTAGE (CN54) : B4B-XH-AM (J.S.T.)
J61 SHORT : V2 OUTPUT VOLTAGE IS +12V.(*)
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PIN HEADER (OUTPUT SIDE CN51)	B8P-VH	J.S.T.	1
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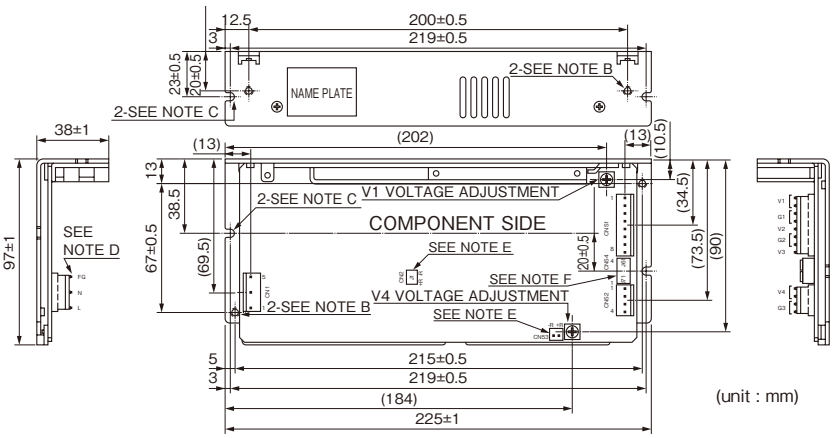
TERMINAL PINS (CN1, 51, 52)	SVH-21T-P1.1	J.S.T.	15

HAND CRIMPING TOOL: YC-160R MANUFACT. : J.S.T.

【ZWQ80/L】



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C: ϕ4.5 HOLE FOR CUSTOMER'S CHASSIS MOUNTING. (USE M4 MOUNTING SCREW. TIGHTENING TORQUE IS 1.08N*m (11kgf*cm).)
D: FG IS FOR SAFETY GROUND CONNECTION.
E: REMOTE ON/OFF CONTROL CONNECTOR (CN2,53) : B2B-XH-AM (J.S.T)
MATCHING HOUSING : XHP-2 (J.S.T.)
MATCHING TERMINAL : BXH-001T-P0.6 (J.S.T.) OR SXH-001T-P0.6 (J.S.T.)
*CN2 IS NORMALLY SHORTED BY JM-2W-96 (J.S.T.).
*HAND CRINPING TOOL: YC-110R OR YSR-110 (J.S.T.).
F: CONNECTOR TO CHANGE V2, V3 OUTPUT VOLTAGE (CN54) : B4B-XH-AM (J.S.T.)
J61 SHORT : V2 OUTPUT VOLTAGE IS +12V.(*)
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TERMINAL PINS (CN1, 51, 52)	SVH-21T-P1.1	J.S.T.	15

HAND CRIMPING TOOL: YC-160R MANUFACT. : J.S.T.