

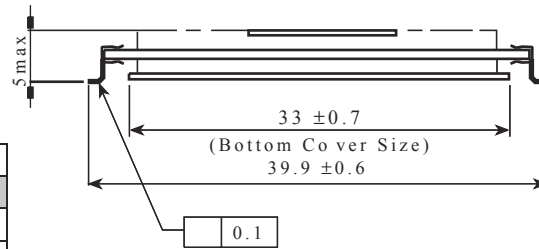
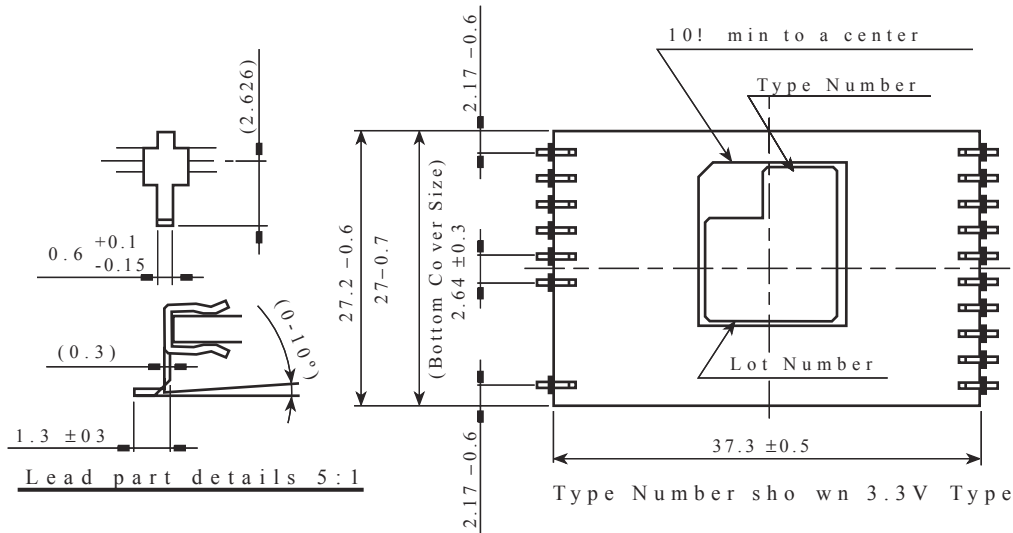
The EPD Series is a new line of very low profile isolated DC/DC converters with a maximum height of 5mm. Shindengen's design offers high efficiency (up to 88%) and excellent reliability. Typical applications include 48V telecom, networking and datacom.

Features

- 3.3v output voltage
- * Up to 3.0A output current
- Small size (1.07" x 1.57" x 1.96")
- * 10 Watt

SPECIFICATIONS

Output Initial Setting		V	3.3	
Input Side	Rating		Continuous	
	Cooling Method	m/s	0.2	Natural convection
	Absolute Max. Rating	V	75	
	Voltage Rating	V	48	
	Input Voltage Range	V	36-60	
		V	60-75	Between single-engined 10ms is electrical-property-guaranteed.
	Turn-on Input Voltage	V	32.0-35.5	Stop hysteresis: More than 2.0V
	Standby Current	mA typ.	5	Vin=30V
	Input Voltage sudden change characteristic	% typ.	3	Ta=25 degree
	Line conduction		FCC part15 subpart B class A conformity	Ta=25 degree (Vin=48V, Io=3A)
Output side	Output Voltage Initial Setting	V	3.201-3.465	-3/+5% to rating
	Output Current (max.)	A	3	
	Output Current	A	0-3.0	
	Output Over Current Limit	A	More than 3.1	
	Fault Voltage detection setting	V	3.79-4.62	115-140 to rating
		Delay time	us typ.	200
	Insufficient voltage detection setting value	V	Less than 2.97	90% to Rating
		Delay time	ms	More than 100
	Output Ripple		50	Including surge
		mV p-p	25	Excluding surge
	Output Starting delay time	ms	20-500	
	Start up time	ms	5	
	Load change	% typ.	5	Ta=25 degree
Efficiency	% typ.	88	Vin=48V, Io=3A, Ta=25 degree	
Radiated emission		FCC Part15 subpart B class A	Vin=48V, Io=3A, Ta=25 degree	
Conversion Frequency	KHz typ.	680	Ta=25 degree	
Dimension (L*W*H)	mm	27.2 +/- 0.5 * 39.9 +/- 0.6 * 4.8	Height : 5.0 max.	
Isolation Voltage	V	DC1500 (1 minute.)	Vin-Vout, 10mA	
Insulation resistance	Ohm	More than 10M	Vin-Vout, DC 500V	
Safety	-	UL, CSA Requirement scheduled		



EPD Series	
Output Voltage	Type No.
5.2V	EPD 5R2020
5.0V	EPD 5R0020
3.3V	EPD 3R3030
2.5V	EPD 2R5030
1.8V	EPD 1R8030

PIN	Designation	Function	Function	Designation	Pin
1	NC	Adhesive dispensing	Adhesive dispensing	NC	
2	Vout (+)	Vout (+)	Vin (-)	Vin (-)	
3	Vout (+)	Vout (+)	Vin (-)	Vin (-)	
4	Vout (+)	Vout (+)	Vin (+)	Vin (+)	
5	Vout (-)	Vout (-)	Vin (+)	Vin (+)	
6	Vout (-)	Vout (-)	-	NC	
7	-	-	Start in/out	PC	
8	-	-	Remote ON/OFF	W	
9	-	-	Alarm	ALM	
10	NC	Adhesive dispensing	Adhesive Dispensing	NC	

Note: This is Preliminary Information; future specifications may differ from this description.