

Технические характеристики на преобразователи напряжения DC/DC серии РХВ

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72
Брянск (4832)59-03-52
Вологда (8172)26-41-59
Иваново (4932)77-34-06
Калининград (4012)72-03-81
Киров (8332)68-02-04
Курск (4712)77-13-04
Москва (495)268-04-70
Нижний Новгород (831)429-08-12
Орел (4862)44-53-42
Пермь (342)205-81-47
Самара (846)206-03-16
Смоленск (4812)29-41-54
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Тюмень (3452)66-21-18
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Астана +7(7172)727-132
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Воронеж (473)204-51-73
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Липецк (4742)52-20-81
Мурманск (8152)59-64-93
Новокузнецк (3843)20-46-81
Оренбург (3532)37-68-04
Ростов-на-Дону (863)308-18-15
Санкт-Петербург (812)309-46-40
Сочи (862)225-72-31
Томск (3822)98-41-53
Ульяновск (8422)24-23-59
Череповец (8202)49-02-64

Белгород (4722)40-23-64
Волгоград (844)278-03-48
Екатеринбург (343)384-55-89
Казань (843)206-01-48
Кемерово (3842)65-04-62
Красноярск (391)204-63-61
Магнитогорск (3519)55-03-13
Набережные Челны (8552)20-53-41
Новосибирск (383)227-86-73
Пенза (8412)22-31-16
Рязань (4912)46-61-64
Саратов (845)249-38-78
Ставрополь (8652)20-65-13
Тула (4872)74-02-29
Уфа (347)229-48-12
Ярославль (4852)69-52-93



PXB15 Series

Single and Dual output 15W
DC-DC converters

- Industry Standard 1" x 1" Footprint
- 9-36V or 18-75VDC Input
- Six Sided Shield
- Standard pin out compatible with 2" x 1" products
- Efficiency up to 89%
- Fixed switching frequency

Key Market Segments & Applications

Telecom/Datacom
Process Control
Wireless Network
Measurement & Test

PXB15 Features and Benefits

Features

- UL, C-UL, VDE CE
- 2:1 and 4:1 Range Input
- Low Profile

Benefits

- Easier system approvals
- Less parts to inventory
- Reduced radiated noise

Specifications	Single Output	Dual Output
Max Output Power	15W	
Voltage Accuracy	+/-1%	
Voltage Adjustment (1)	+/-10%	
Minimum Load	None	
Line Regulation Single/Dual output	+/-0.2%	+/-0.5%
Load Regulation Single/Dual output	+/-0.2%	+/-1.0%
Cross regulation	+/-5%	
Ripple and Noise	See table	
Start up time	Nominal VIN and constant Resistive load	Power Up 30mS Remote ON/OFF 30mS
Start up voltage 2:1 Input 12V/24V/48V	9VDC/17VDC/33VDC	
Start up voltage 4:1 Input 24V/48V	9VDC/18VDC	
Shut down voltage 2:1 Input 12V/24V/48V	8VDC/14.5VDC/30.5VDC	
Shut down voltage 4:1 24V/48V	8VDC/16VDC	
Remote on/off	Positive Logic: ON: Open or 3-15V, OFF Short or <1.2V Negative Logic: ON: Short or <1.2V, OFF: Open or 3-15V	
Efficiency	See table	
Temperature Coefficient	<+/-0.02%/°C	
Operating Temperature	-40° to +85°C, derating necessary above 60°C	
Storage Temperature	-55° to +125°C	
Thermal Shock	MIL-STD-810F	
Relative Humidity (non condensing)	5 to 95%	
Transient Response (25% step load change)	250µs recovery	
Overvoltage Protection (Zener clamp)	120-130%	
Overcurrent and Short Circuit Protection	Typically at 150%, hiccup with self recovery	
Input Surge Voltage (Maximum for 100ms)	12V input: 36V, 24V input: 50V, 48V input: 100V	
Reflected input ripple (peak to peak)	30mA	
Isolation Voltage Input to Output	1600VDC minimum	
Input (output) to Case	1000VDC minimum	
Isolation Resistance	10 ⁹ Ω minimum	
Isolation Capacitance (max)	1000pF	
Switching Frequency (Fixed)	400kHz typ	
MTBF (BELLCORE TR-NWT-000332)	1,330,000 hours	
Vibration	MIL-STD-810F	
Conducted and Radiated Emissions (2)	EN55022 Level A	
Immunity (3)	EN61000-4-2, -3, -4, -5, -6 Pref Criteria A	
Safety Agency Certifications	IEC60950-1, UL60950-1, EN60950-1, CE Mark	
Size (mm) (L x W x H)	25.4 x 25.4 x 9.9	
Weight (g)	15	
Warranty (yrs)	2	

Model Selector								
Model	Output Voltage V	Output Current A	Output Power W	Input Voltage V	Nominal Input Current mA	Efficiency %	Ripple and Noise mVp-p	Max Load Capacitance uF
4:1 INPUT Single Outputs								
PXB15-24WS3P3	3.3V	4.0A	13.2W	9 - 36VDC	688mA	86%	75mVp-p	12000uF
PXB15-48WS3P3	3.3V	4.0A	13.2W	18 - 75VDC	336mA	86%	75mVp-p	12000uF
PXB15-24WS05	5.0V	3.0A	15W	9 - 36VDC	762mA	86%	75mVp-p	6000uF
PXB15-48WS05	5.0V	3.0A	15W	18 - 75VDC	382mA	86%	75mVp-p	6000uF
PXB15-24WS12	12V	1.25A	15W	9 - 36VDC	783mA	87%	100mVp-p	1000uF
PXB15-48WS12	12V	1.25A	15W	18 - 75VDC	392mA	87%	100mVp-p	1000uF
PXB15-24WS15	15V	1.0A	15W	9 - 36VDC	753mA	87%	100mVp-p	660uF
PXB15-48WS15	15V	1.0A	15W	18 - 75VDC	377mA	87%	100mVp-p	660uF
4:1 INPUT Dual Outputs								
PXB15-24WD05	±5V	1.5A	15W	9 - 36VDC	772mA	85%	100mVp-p	±3000uF
PXB15-24WD12	±12V	0.625A	15W	9 - 36VDC	753mA	87%	100mVp-p	±520uF
PXB15-24WD15	±15V	0.5A	15W	9 - 36VDC	744mA	88%	100mVp-p	±330uF
PXB15-48WD05	±5V	1.5A	15W	18 - 75VDC	386mA	85%	100mVp-p	±3000uF
PXB15-48WD12	±12V	0.625A	15W	18 - 75VDC	382mA	86%	100mVp-p	±520uF
PXB15-48WD15	±15V	0.5A	15W	18 - 75VDC	377mA	87%	100mVp-p	±330uF
2:1 INPUT Single Outputs								
PXB15-12S3P3	3.3V	4.0A	13.2W	9 - 18VDC	1375mA	84%	75mVp-p	12000uF
PXB15-24S3P3	3.3V	4.0A	13.2W	18 - 36VDC	671mA	86%	75mVp-p	12000uF
PXB15-48S3P3	3.3V	4.0A	13.2W	36 - 75VDC	336mA	86%	75mVp-p	12000uF
PXB15-12S05	5.0V	3.0A	15W	9 - 18VDC	1542mA	86%	75mVp-p	6000uF
PXB15-24S05	5.0V	3.0A	15W	18 - 36VDC	763mA	86%	75mVp-p	6000uF
PXB15-48S05	5.0V	3.0A	15W	36 - 75VDC	372mA	88%	75mVp-p	6000uF
PXB15-12S12	12V	1.25A	15W	9 - 18VDC	1605mA	85%	100mVp-p	1000uF
PXB15-24S12	12V	1.25A	15W	18 - 36VDC	783mA	87%	100mVp-p	1000uF
PXB15-48S12	12V	1.25A	15W	36 - 75VDC	387mA	88%	100mVp-p	1000uF
PXB15-12S15	15V	1.0A	15W	9 - 18VDC	1506mA	87%	100mVp-p	660uF
PXB15-24S15	15V	1.0A	15W	18 - 36VDC	744mA	88%	100mVp-p	660uF
PXB15-48S15	15V	1.0A	15W	36 - 75VDC	372mA	88%	100mVp-p	660uF
2:1 INPUT Dual Outputs								
PXB15-12D05	±5V	±1.5A	15W	9 - 18VDC	1543mA	85%	100mVp-p	±3000uF
PXB15-12D12	±12V	±0.625A	15W	9 - 18VDC	1506mA	87%	100mVp-p	±520uF
PXB15-12D15	±15V	±0.5A	15W	9 - 18VDC	1488mA	88%	100mVp-p	±330uF
PXB15-24D05	±5V	±1.5A	15W	18 - 36VDC	772mA	85%	100mVp-p	±3000uF
PXB15-24D12	±12V	±0.625A	15W	18 - 36VDC	744mA	88%	100mVp-p	±520uF
PXB15-24D15	±15V	±0.5A	15W	18 - 36VDC	744mA	88%	100mVp-p	±320uF
PXB15-48D05	±5V	±1.5A	15W	36 - 75VDC	386mA	85%	100mVp-p	±3000uF
PXB15-48D12	±12V	±0.625A	15W	36 - 75VDC	368mA	89%	100mVp-p	±520uF
PXB15-48D15	±15V	±0.5A	15W	36 - 75VDC	372mA	88%	100mVp-p	±330uF

Specification Notes:

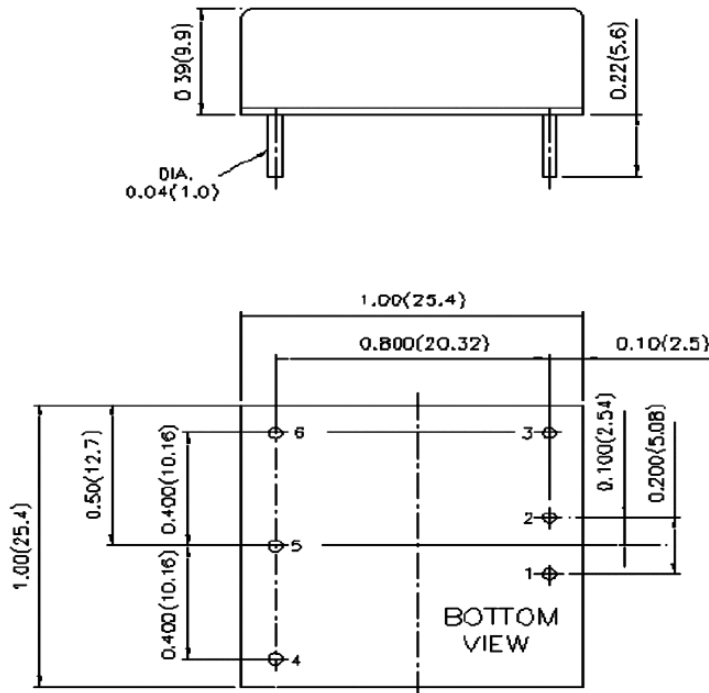
- (1) Output can be trimmed using an external resistor (Single Output only).
- (2) To meet EN55022 Class B external filter components are required. See additional application note.
- (3) To meet EN61000-4-4, EN610004-5 an external filter capacitor is required. See additional application note.

Options	
Suffix	Description
P	Positive Logic
N	Negative Logic
T	Trim

–NT as standard on Single Outputs, N as standard on Dual Outputs.

Delete suffix if not required

Outline Drawing PXB15 Series

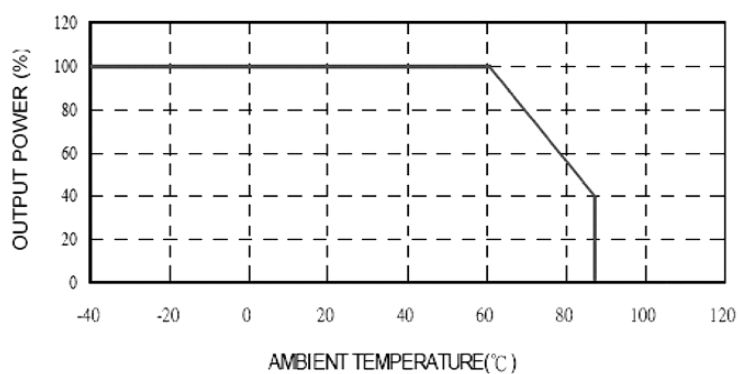


1. All dimensions in Inches (mm)
Tolerance: X.XX±0.02 (X.X±0.5)
X.XXX±0.01 (X.XX±0.25)
2. Pin pitch tolerance ±0.01 (0.25)
3. Pin dimension tolerance ±0.004 (0.1)

Pinout

Pin#	Function	
	Single Output	Dual Output
1	+ Input	+ Input
2	- Input	- Input
3	Remote On/Off	Remote On/Off
4	+ Output	+ Output
5	Trim (Single o/p only)	Common
6	- Output	- Output

Derating Curve PXB15 Series



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