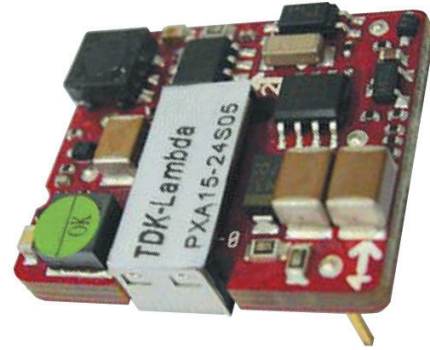


Single Output 15W DC-DC Converters

Features

- ◆ Industry Standard 1" x 1" Footprint
- ◆ Through hole or Surface Mount versions
- ◆ Agency Approved
- ◆ 12V, 24V and 48V Inputs
- ◆ Wide range input (PXA15W)



Key Market Segments & Applications



Specifications		PXA15	PXA15W
Model		PXA15	PXA15W
Max Output Power	W	15W	15W
Voltage Accuracy	%		±1%
Voltage Adjustment (T Suffix)	%		±10%
Minimum Load	-		None
Line Regulation	%		±0.2%
Load Regulation (0% to 100%)	%		±0.2%
Start up time	ms		30ms
Remote on/off	-	Negative Logic /N (standard): ON: Short or <1.2V, OFF: Open or 3-15V Positive Logic /P (optional): ON: Open or 3-15V, OFF Short or <1.2V	
Temperature Coefficient	°C		<±0.02%/°C
Operating Temperature	°C	-40 to +85°C (See derating curves)	
Storage Temperature	°C	-55 to 125°C	
Thermal Shock	-	MIL-STD-810F	
Relative Humidity (non condensing)	%	5 to 95%	
Transient Response (25% step load change)	µs	200µs recovery	300µs recovery
Overvoltage Protection (Zener clamp)	V	1.5-3.3V: 3.9V, 5V: 6.2V, 12V: 15V, 15V: 18V	
Overcurrent and Short Circuit Protection	%	Typically at 150%, hiccup with self recovery	
Input Surge Voltage (Maximum for 100ms)	VDC	12V input: 36V, 24V input: 50V, 48V input: 100V	
Reflected input ripple (peak to peak)	mA	30mA	
Isolation Voltage	VDC	2250VDC minimum	
Isolation Resistance	Ω	109 Ohms minimum	
Isolation Capacitance (max)	pF	1000pF	1500pF
Typical Switching Frequency (Fixed)	kHz	3.3, 5V: 270kHz; 12,15V: 470kHz	3.3, 5V: 350kHz; 12,15V: 400kHz
MTBF (BELLCORE TR-NWT-000332)	Hours	2,200,000	1,322,000
Vibration	-	MIL-STD-810F	
Conducted and Radiated Emissions	-	See Installation Diagrams	
Immunity	-	EN61000-4-3,-4,-5,-6	
Safety Agency Approval	-	IEC/UL/CSA/EN 62368-1, 60950-1, CE and UKCA Mark	
Size (L x W x H)	in	1.1 x 0.94 x 0.34"	
Mounting	-	Through Hole standard; Surface Mount (option "S")	
Weight	g	10.5	
Warranty	yrs	Three Years	

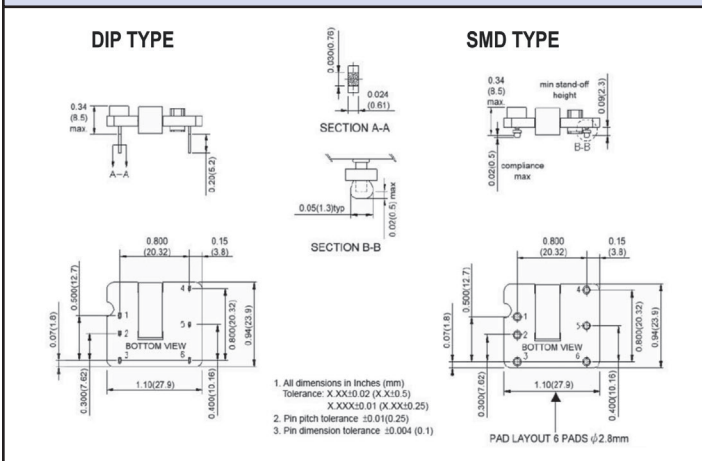
Notes:
See installation manual

Model Selector

Output Voltage (VDC)	Output Current (A)	Output Power (W)	Input Voltage (VDC)	Model	Ripple & Noise (Pk-Pk mV)	Nominal Input Current (mA)	Efficiency (%)	Maximum Load Capacitance (uF)
3.3	4	13.2	9 - 36	PXA15-24WS3P3/NT	100	680	85	1000
3.3	3.5	11.5	18 - 36	PXA15-24S3P3/NT	75	587	86	1000
3.3	4	13.2	18 - 75	PXA15-48WS3P3/NT	100	340	85	1000
3.3	3.5	11.5	36 - 75	PXA15-48S3P3/NT	75	297	85	1000
5	3	15	9 - 36	PXA15-24WS05/NT	100	754	87	1000
5	3	15	18 - 36	PXA15-24S05/NT	75	753	87	1000
5	3	15	18 - 75	PXA15-48WS05/NT	100	377	87	1000
5	3	15	36 - 75	PXA15-48S05/NT	75	377	87	1000
12	1.3	15.6	9 - 36	PXA15-24WS12/NT	100	793	86	330
12	1.25	15	18 - 36	PXA15-24S12/NT	100	753	87	330
12	1.3	15.6	18 - 75	PXA15-48WS12/NT	100	397	86	330
12	1.25	15	36 - 75	PXA15-48S12/NT	100	377	87	330
15	1	15	9 - 36	PXA15-24WS15/NT	100	763	86	220
15	1	15	18 - 36	PXA15-24S15/NT	100	744	88	220
15	1	15	18 - 75	PXA15-48WS15/NT	100	382	86	220
15	1	15	36 - 75	PXA15-48S15/NT	100	372	88	220

Shaded models obsolete. Use equivalent wide range input models

Outline Drawing



Pinout

Pin #	Function
1	+ Input
2	- Input
3	Remote On/Off
4	+ Output
5	Trim
6	- Output

Options

N	Negative logic remote on/off
P	Positive logic remote on/off
S	Surface mount termination
T	Trim - remote adjust
Preferred	Example PXA15-24WS3P3/NT

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

