

PXS05-xxxxE



PXSD-SERIES

Rev.01-2017

- ✓ **0.5 Watt**
- ✓ **5 Pin's**
- ✓ **Unregulated**
- ✓ **Single Output**
- ✓ **SMD Case**
- ✓ **1 kV DC I/O Isolation**
- ✓ **1sec. Short Circuit Prot.**

Preliminary

All specifications typical at Ta=25°C, nominal input voltage and full load unless otherwise specified

Input Specifications

Voltage Range	±10%
Filter	Capacitors

General Specifications

Efficiency	See Table
Isolation I/O (2 sec, 0.5mA)	1000VDC
Isolation I/O Resistance	1000 MΩ, min.
Switching Frequency	100 kHz
Humidity (rel.)	95%, max.
MTBF (Calculated MIL-HDBK-217F)	>3500 Khrs
Reflow Soldering	240°C, max.

Output Specifications

Voltage accuracy	±5%, max.
Line regulation (per 1% Vin change)	±1.2%
Load regulation (10% to 100%)	15%, typ (3.3V) 15%, max (5V) 9%, max. (9V) 7.5%, max. (12V) 7%, max. (15V)
Ripple & noise (20 MHz bandwidth)	100 mV pk-pk
Transient Response Setting Time	350uS (50% load step)
Short Circuit Protection	1 sec.

Environment / Physical Specifications

Operation Temp.	-40° C to 85° C
Storage	-40° C to 100° C
Cooling	Nature / Free Air
Case Material	Plastic (UL94V-0 rated)
Potting	Epoxy (UL94V-0 rated)
Weight	~1.0 g

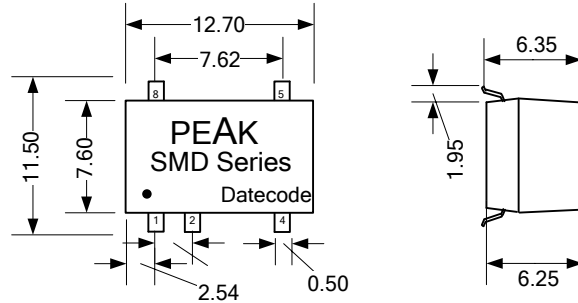
Selection Guide

Single Output

Order #	Input Voltage (VDC)	Output Voltage (VDC)	Output Current max. (mA)	Efficiency (%)
SINGLE OUTPUT				
PXS05-3R33R3E	3.3	3.3	150	65
PXS05-3R305E	3.3	5	100	70
PXS05-3R309E	3.3	9	56	70
PXS05-3R312E	3.3	12	42	70
PXS05-3R315E	3.3	15	33	70
PXS05-053R3E	5	3.3	150	68
PXS05-0505E	5	5	100	70
PXS05-0506E	5	6	83	72
PXS05-0509E	5	9	56	72
PXS05-0512E	5	12	42	72
PXS05-0515E	5	15	33	72
PXS05-093R3E	9	3.3	150	70
PXS05-0905E	9	5	100	72
PXS05-0909E	9	9	56	72
PXS05-0912E	9	12	42	72
PXS05-0915E	9	15	33	72
PXS05-123R3E	12	3.3	150	70
PXS05-1205E	12	5	100	70
PXS05-1209E	12	9	56	72
PXS05-1212E	12	12	42	72
PXS05-1215E	12	15	33	72
PXS05-153R3E	15	3.3	150	70
PXS05-1505E	15	5	100	73
PXS05-1509E	15	9	56	75
PXS05-1512E	15	12	42	76
PXS05-1515E	15	15	33	78

If you need other specifications, please enquire.

Package / Pinning / Derating



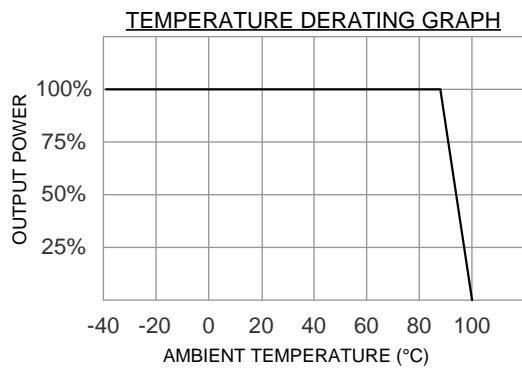
All dimensions are typical in millimeters (inches).

- Pin pitch tolerance: +/-0.35

- Case tolerance +/-0.7

Specification may change without notice.

PXS05-Series
Single output

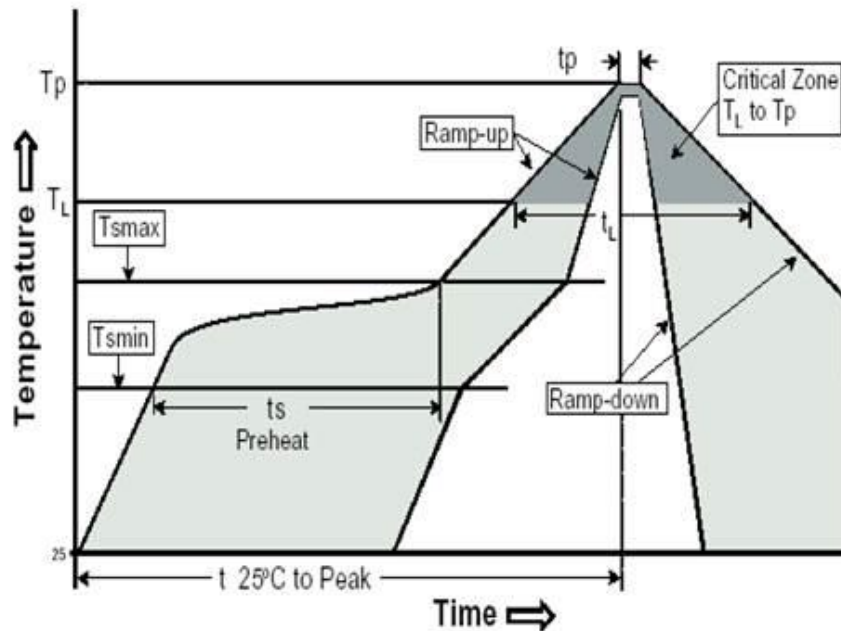


PIN CONNECTIONS	
#	SINGLE
1	- Vin
2	+Vin
4	- Vout
5	+Vout
others	N.P.

APP NOTES

-MSL Level: 2

-Soldering:



Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (Ts max to Tp)	3°C /sec., max.
Preheat -Temperature Min (Ts min) -Temperature Max (Ts max) -Time (ts min to ts max)	1500C 2000C 60-180 sec.
Time maintained above: -Temperature (TL) -Time (tL)	217°C 60-150 sec.
Peak/Classification Temperature (Tp)	240°C, max.
Time within 50C of actual Peak Temperature (tp)	20-40 sec.
Ramp-Down Rate	6°C/sec., max
Time 250C to Peak Temperature	6 minutes, max.