

1 Watt**10 Pin****SMD-Package W
LEADFREE**

- o Ultra-Miniature Size
- o Unregulated Output
- o 1000 VDC I/O-Isolation
- o 3000 VDC I/O-Isolation add Suffix "H3"
- o EN60950 and EN60601 compliant

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	%EFF MIN.
1WUD3.3N3.3E LEADFREE	3.3 VDC	±3.3 VDC	±150 mA	75
1WUD3.3N5E LEADFREE		±5 VDC	±100 mA	72
1WUD3.3N9E LEADFREE		±9 VDC	±56 mA	74
1WUD3.3N12E LEADFREE		±12 VDC	±44 mA	75
1WUD3.3N15E LEADFREE		±15 VDC	±33 mA	74
1WUD5N3.3E LEADFREE	5 VDC	±3.3 VDC	±150 mA	75
1WUD5N5E LEADFREE		±5 VDC	±100 mA	72
1WUD5N9E LEADFREE		±9 VDC	±56 mA	74
1WUD5N12E LEADFREE		±12 VDC	±44 mA	75
1WUD5N15E LEADFREE		±15 VDC	±33 mA	74
1WUD9N3.3E LEADFREE	9 VDC	±3.3 VDC	±150 mA	75
1WUD9N5E LEADFREE		±5 VDC	±100 mA	72
1WUD9N9E LEADFREE		±9 VDC	±56 mA	74
1WUD9N12E LEADFREE		±12 VDC	±44 mA	75
1WUD9N15E LEADFREE		±15 VDC	±33 mA	74
1WUD12N3.3E LEADFREE	12 VDC	±3.3 VDC	±150 mA	75
1WUD12N5E LEADFREE		±5 VDC	±100 mA	72
1WUD12N9E LEADFREE		±9 VDC	±56 mA	74
1WUD12N12E LEADFREE		±12 VDC	±44 mA	75
1WUD12N15E LEADFREE		±15 VDC	±33 mA	74
1WUD15N3.3E LEADFREE	15 VDC	±3.3 VDC	±150 mA	75
1WUD15N5E LEADFREE		±5 VDC	±100 mA	72
1WUD15N9E LEADFREE		±9 VDC	±56 mA	74
1WUD15N12E LEADFREE		±12 VDC	±44 mA	75
1WUD15N15E LEADFREE		±15 VDC	±33 mA	74
1WUD24N3.3E LEADFREE	24 VDC	±3.3 VDC	±150 mA	75
1WUD24N5E LEADFREE		±5 VDC	±100 mA	72
1WUD24N9E LEADFREE		±9 VDC	±56 mA	74
1WUD24N12E LEADFREE		±12 VDC	±44 mA	75
1WUD24N15E LEADFREE		±15 VDC	±33 mA	74

NOTE: Add Suffix "R" for Tape and Reel Packing.

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS

Input Voltage Range	±10 % max.
Input Filter	Capacitor

OUTPUT SPECIFICATIONS

Voltage set Accuracy	-1% typ. ±5% max.
Ripple and Noise, 20MHz BW	50 mV p-p typ. 100 mV p-p max.
Short Circuit Protection	1 sec. (optional continuous on request)
Line Regulation (Low Line to High Line @ max. Load)	1% typ. 1.2% max.
Load Regulation*	3.3V, 5V 12% typ. / 15% max. 9V 7% typ. / 10% max. 12V, 15V 6% typ. / 10% max.

*Measured from 10% to 100% Load

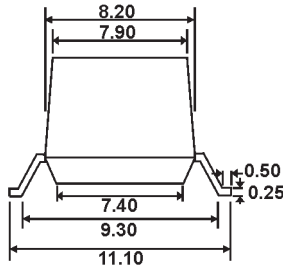
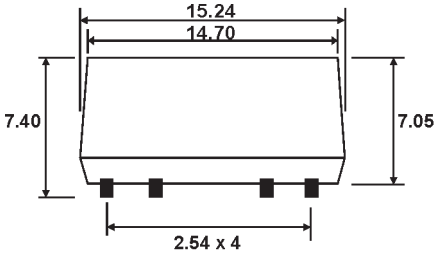
GENERAL SPECIFICATION

Efficiency		see table
Isolation Voltage Suffix "H3"		1000 VDC 3000 VDC
Isolation Resistance	Viso=500V	10 Gohms
Isolation Capacitance		10 pF min. 75 pF max.
Switching Frequency		20 kHz min. 50 kHz typ. 100 kHz max.
Operating Temperature Range		-40°C to +85°C
Storage Temperature Range		-50°C to +125°C
Derating		see diagram
Humidity		95% max.
Weight	Dual	1.2 gram
Case Material		DAP WH-9100
ReFlow Temperature RoHS compliant		+240°C max./10-30 sec.
ReFlow Soldering: Infra Red / Air Convection		profile see diagram
MTBF (MIL-HDBK-217F)	at 25°C at 85°C	1045000 hrs 183000 hrs

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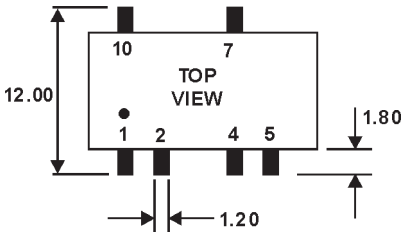
MECHANICAL SPECIFICATIONS

Case "W-LEADFREE"



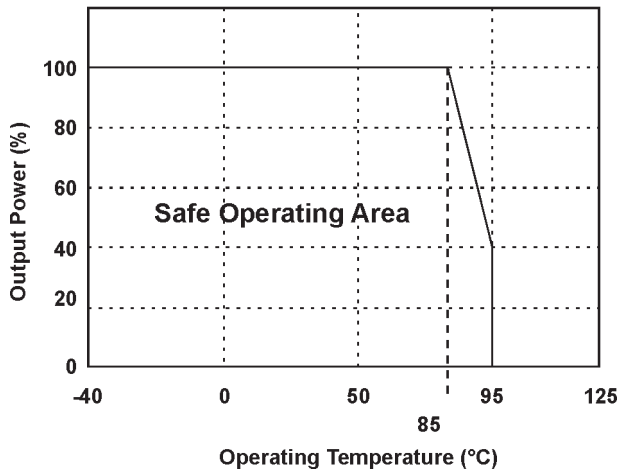
PIN CONNECTIONS	
1	-INPUT
2	+INPUT
4	COMMON
5	-OUTPUT
7	+OUTPUT
10	NOT CONNECTED

All Dimensions in mm.
Tolerances: ±0.25 mm

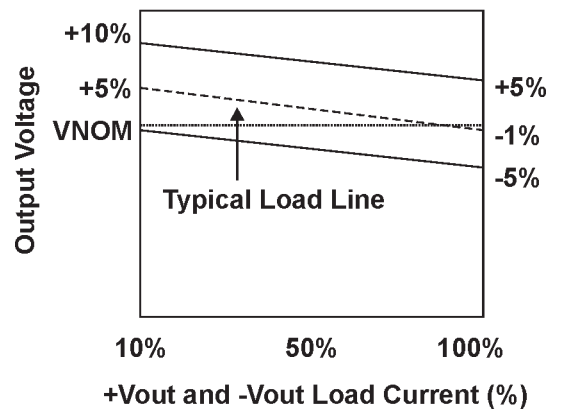


DIAGRAMS & APPLICATIONS

Derating Curve
(Ambient Temperature)



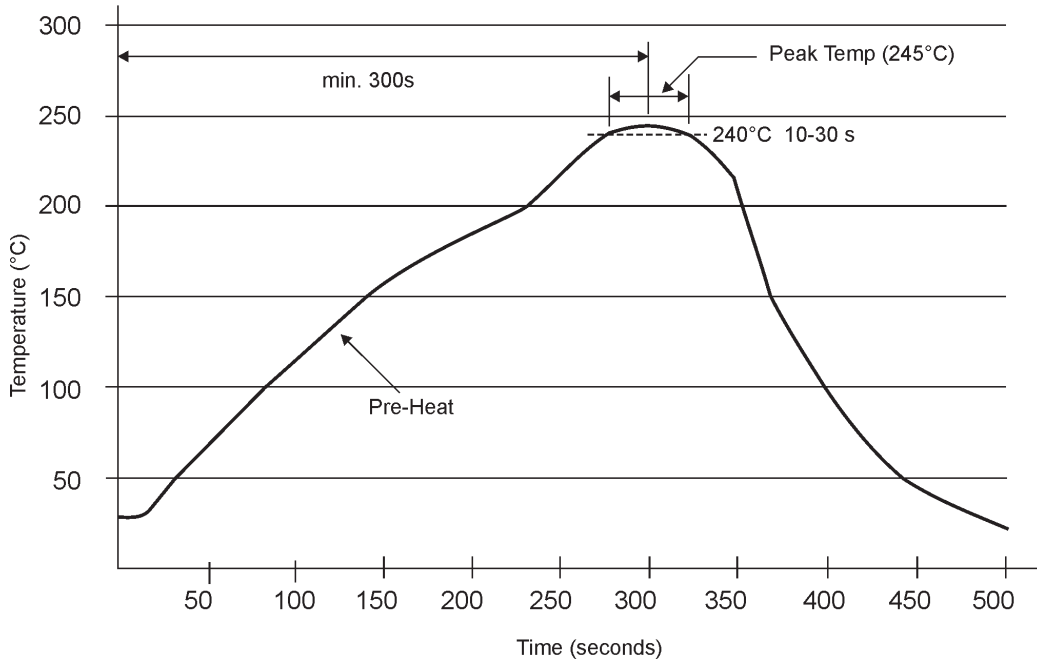
Tolerance Envelopes



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Lead-free Recommended Max. Soldering Profile (SMD-Parts)



Please Notice, that Vapour phase soldering is not recommended!

External Capacitor Table

Dual			
Vin	External Capacitor	Vout	External Capacitor
3.3 VDC	10 µF max.	±3.3 VDC	10 µF max.
5 VDC	10 µF max.	±5 VDC	10 µF max.
12 VDC	6.8 µF max.	±12 VDC	6.8 µF max.
15 VDC	4.7 µF max.	±15 VDC	4.7 µF max.
24 VDC	2.2 µF max.	-	-

NOTICE:
 The information in this document has been carefully checked. However, no responsibility is assumed for inaccuracies!
 Specifications can be changed without notice. The latest and most complete information can be found on our website.