

**PSR SERIES PSR-78xxLF WIDE INPUT NON-ISOLATED REGULATED SINGLE OUTPUT SIP3**

**Wide Input Range**  
**Efficiency up to 96%**  
**Available Outputs:**  
**3.3, 5, 6.5, 9, 12, 15 VDC**

Other specifications please enquire.

**Electrical Specifications**

(Typical at + 25° C, nominal input voltage, rated output current unless otherwise specified)

**Output Specifications**

Voltage accuracy (at 100% load)	+/- 2 %, typ. / +/- 3%, max.
Line voltage regulation (Vin=min. to max. at full load)	+/- 0,2%, typ. / +/- 0.4%, max.
Load voltage regulation (10% - 100%)	+/- 0.4%, typ. / 0.6%, max.
Ripple and noise (at 20 MHz BW)	20 mV p-p, typ. / 35 mV p-p, max.
Short circuit input power	0.3W, typ. / 0.8W, max.
Short circuit protection	Continuous, automatic recovery
Output current limit	2000mA, max.
Switching frequency	280KHz, min. / 330 KHz, typ. / 450 KHz, max.
Dynamic load stability 100% <-> 10% load	+/- 100mV
Quiescent current (Vin=min. to max. at 0% load)	5mA, typ. / 7mA, max.
Thermal shutdown (Internal IC junction)	150 °C, typ.
Temperature coefficient (-40°C – 85°C ambient)	0.02% °C, max.

**Common Specifications**

Operating temperature (ambient)	- 40° C to + 85° C / 100°C case temperature
Storage temperature	- 55 °C to + 125 °C
Cooling	Free air convection

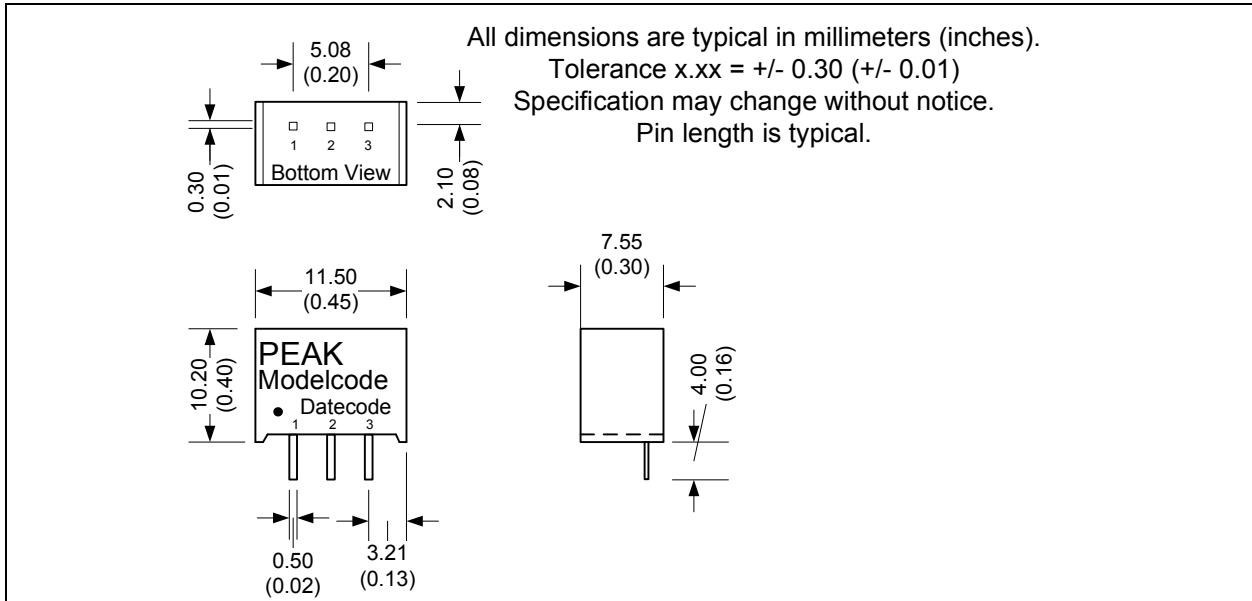
**Physical Characteristics**

Case material	UL94-V0
“RoHS compliant”	Soldering 260°C / max. 10 sec.

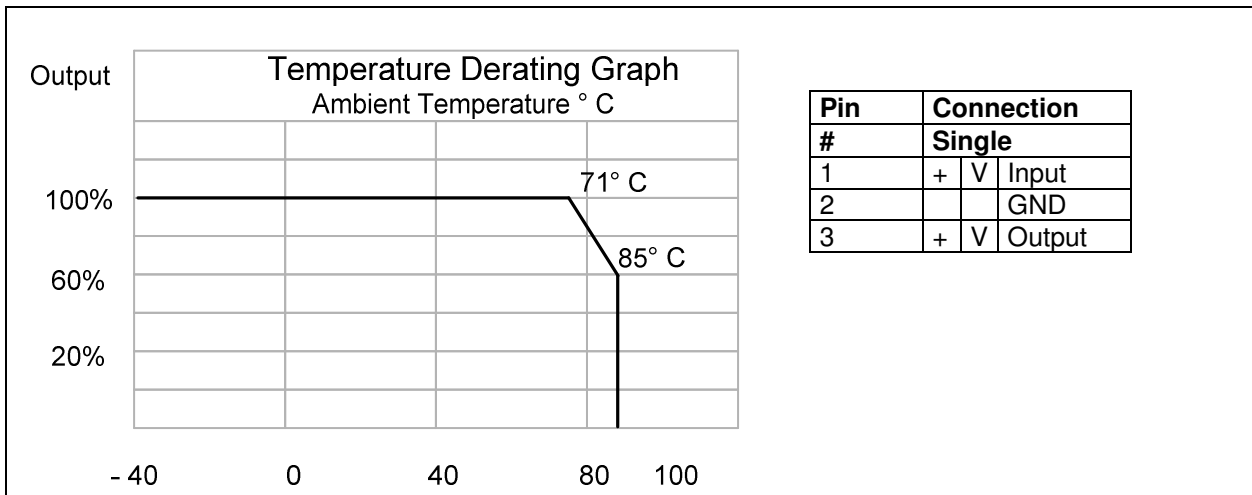
**Examples for Partnumbers**

PART NO.	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY Min Vin (%)	EFFICIENCY Max Vin (%)
PSR-783R3LF	4.75 – 28	3.3	500	90	80
PSR-7805LF	6.5 – 32	5	500	93	84
PSR-786.5LF	8 – 32	6.5	500	94	87
PSR-7809LF	11 – 32	9	500	95	91
PSR-7812LF	15 – 32	12	500	95	92
PSR-7815LF	18 - 32	15	500	96	93

**Dimensions**



**Derating Graph and Pinning**



Specification can be changed without notice.

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