

**SMD SERIES PSD-XXXXS 1KV ISOLATED 1W UNREGULATED SINGLE OUTPUT SMD**

**Available Inputs: 3.3, 5 and 12 VDC**

**Available Outputs: 3.3, 5, 9, 12 and 15 VDC**

Other specifications please enquire.

**Electrical Specifications**

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

**Input Specifications**

Voltage range +/- 10 %  
 Filter Capacitors

**Isolation Specifications**

Rated voltage 1000 VDC  
 Resistance 1000 MOhm

**Output Specifications**

Voltage accuracy +/- 5 %, max.  
 Ripple and noise (at 20 MHz BW) 100 mV p-p, max.  
 Short circuit protection Momentary  
 Line voltage regulation +/- 1,2 % / 1,0 % of Vin  
 Load voltage regulation +/- 14 %, load = 20 ~ 100 % max.  
 Temperature coefficient +/- 0,02 % / °C

**General Specifications**

Efficiency 70 - 83 %  
 Switching frequency 100 KHz, typ.

**Environmental Specifications**

Operating temperature (ambient) - 40° C to + 85° C  
 Storage temperature - 55 °C to + 125 °C  
 Derating See graph  
 Humidity Up to 90 %, non condensing  
 Cooling Free air convection

**Physical Characteristics**

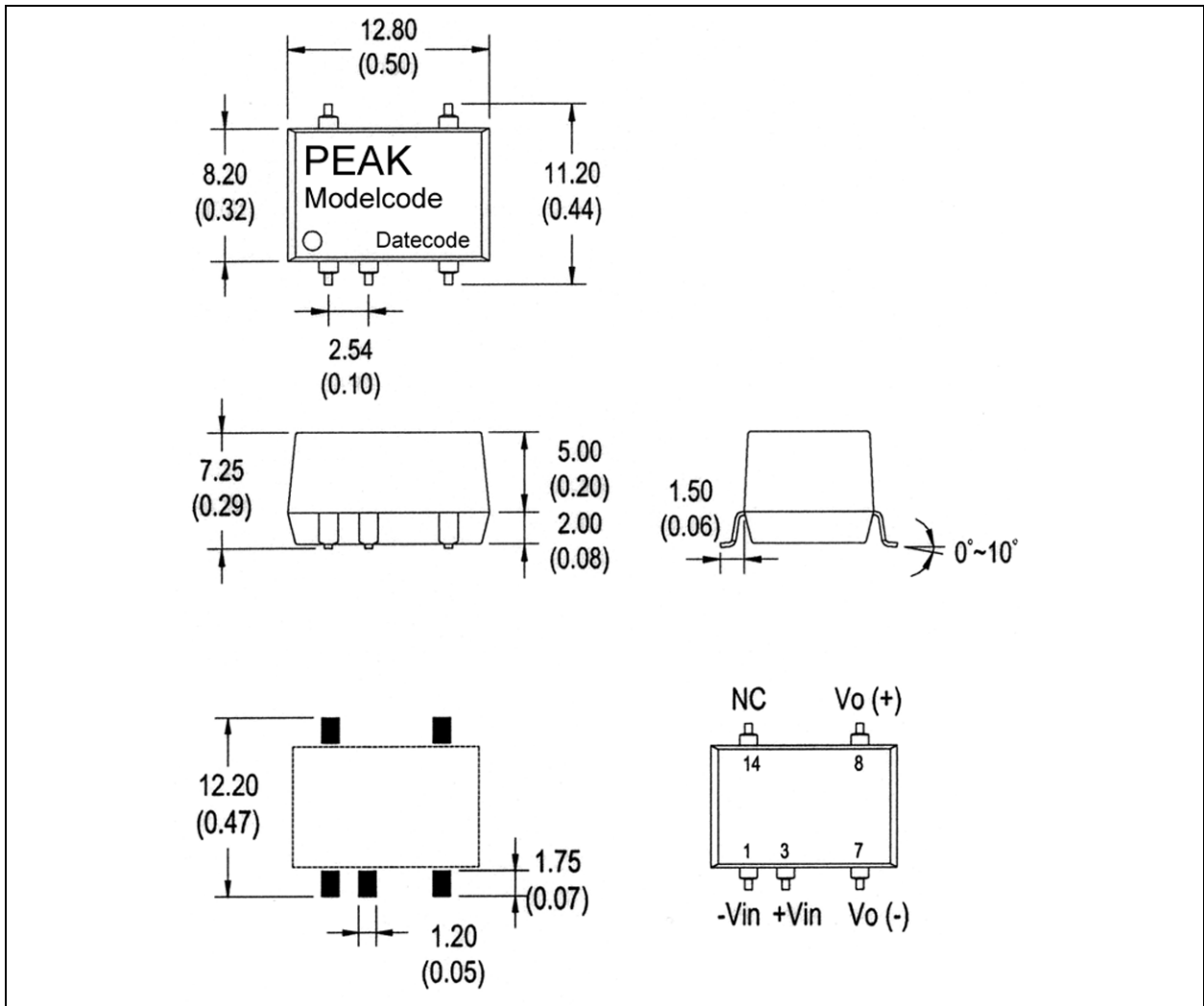
Case material Non conductive black plastic

Lead temp. 1.5 mm from case for 10 sec. +300° C  
 Peak reflow temp. with CECC 00802 profile +280° C

**Partnumbers**

PART NO.	INPUT VOLTAGE (VDC)	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYP.)
PSD-3R305S	3.3	450	5	200	70
PSD-053R3S	5	171	3.3	200	77
PSD-0505S	5	246	5	200	81
PSD-0509S	5	254	9	110	78
PSD-0512S	5	252	12	84	80
PSD-123R3S	12	73	3.3	200	75
PSD-1205S	12	100	5	200	81
PSD-1209S	12	105	9	110	78
PSD-1212S	12	103	12	84	81
PSD-1215S	12	100	15	67	83

**Dimensions**



**Derating Graph and Pinning**

