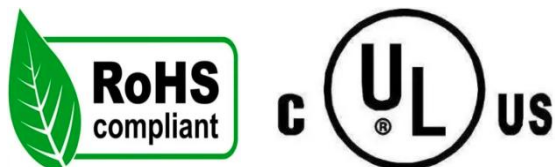


TGR0.5S



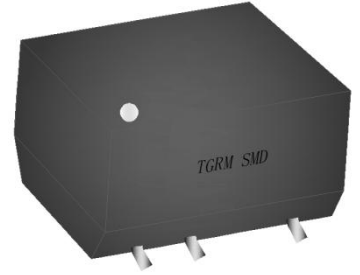
Address: Building.E9 & E13,  
Xingmeng Park Enterprises  
Mansion, No.198, Mingzhu  
Avenue, High-tech Zone, Hefei,  
230088, China

Fax: 0551-65547975  
sale@tiger-transformer.com

## Features

### Unregulated Converter

- 1:1 Input Range
- 0.5W SMD Package
- Efficiency up to 80%
- Approved for Medical Applications
- 1kVDC and 3 kVDC Isolation Option
- Operating Temperature from -40°C to +100°C



# TGR0.5S

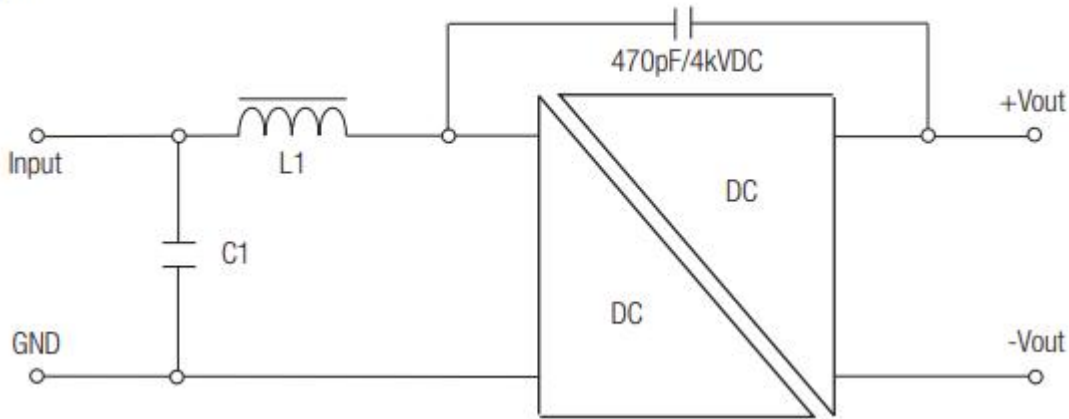
Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

Input Voltage Range		±10% max.
Voltage Set Accuracy	100% Load/nominal Vin	-1% typ. / ±5% max.
Line Regulation	Low Line to High Line @ max. Load	1.2% typ.
Load Regulation	5V output	6% typ. / 15% max.
(10% to 100% Load)	12/15V output	5%typ. / 10% max.
Ripple & Noise @ 20MHz BW		50 mVp-p typ. / 100mVp-p max.

**Notes:** Note4: No proper operation with DC input voltage Note5: The products were submitted for safety files at AC-Input operation Note6: Refer to "Line Deratin

# Protection Circuitm

input

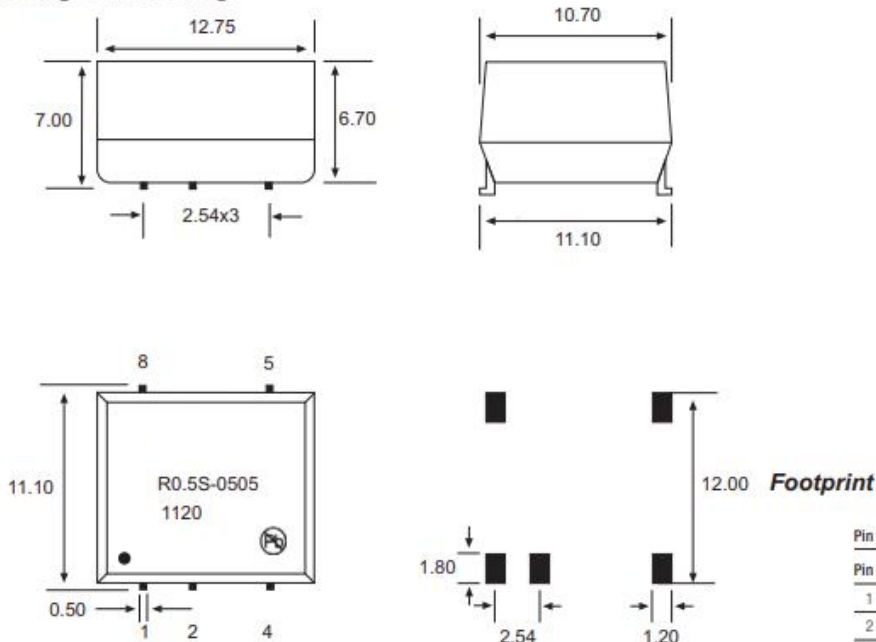


Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

MTBF	Using MIL-HDBK 217F (+100°C)	1003 x 10 <sup>3</sup> hours
	Using MIL-HDBK 217F (+25°C)	3962 x 10 <sup>3</sup> hours
	<i>Detailed Information see Application Notes chapter „MTBF“</i>	

## Dimension Drawing (mm)

5 PINS Single SMD Package



Pin Connections

Pin #	Single	Dual
1	-Vin	-Vin
2	+Vin	+Vin
4	-Vout	Com.
5	+Vout	-Vout
7	No Pin	+Vout