

DC/DC Converter  
AC/DC Inverters  
Delay-Lines  
Pulsetransformers  
Burst & Surge Filters  
Harmonic Filters  
Switching Power Supplies

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Unregulated  
Case Style: SIP 16

**MEDICAL - INDUSTRIAL**  
**DC/DC Converters**  
for high frequency surgical equipment  
**REINFORCED INSULATION**  
single / dual output

Stand: 07/14

**1 - 2 Watt**  
**Series:**  
**MED-FS16U**

**EN 60601-2-2**

**Electrical specifications:**

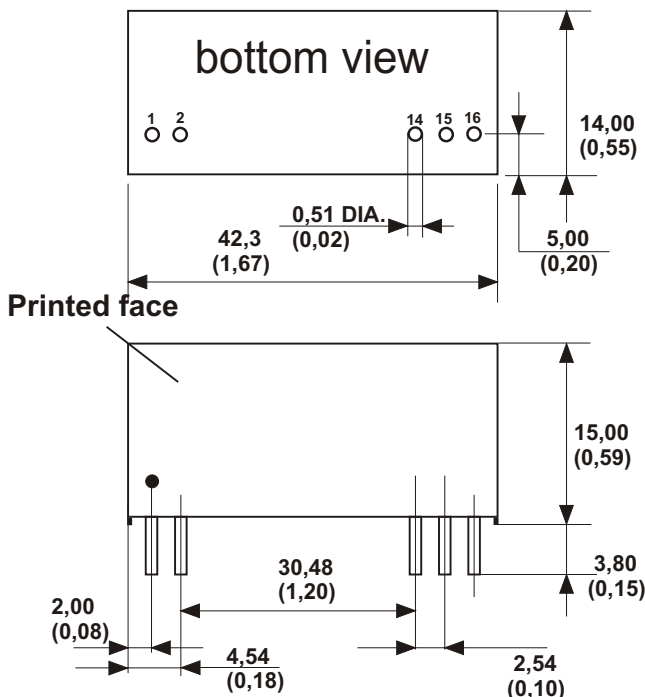
Input voltage range: +/- 10%  
Output voltage accuracy: +/- 2% (Vin=nominal & full load)  
  +/- 5% (2W series)  
Line Vin/Vout: +/- 1% / +/- 1%  
Output voltage change: 3,3V, 5V output types 15% max.  
  2W 5V input series 15% max.  
  9V ~ 24V output types 10% max.  
Operating temperature: -40°C to +95°C  
Ambient temperature: -40°C to +71°C  
for 2W: > 1000mtr. ASL derating required 2,5%/250 mtr.

Ripple: typ. 150mVp-p  
Temperature coefficient: +/- 0,02% / °C  
Insulation test voltage: 10kV AC rms 1min  
Insulation voltage: 5kV AC rms continuous  
Efficiency: up to 80%  
Short circuit protection: continuous  
Inrush overload: max. 30%  
couple capacitance: ~10pF  
clearance/creepage: >27mm min.

partial discharge free insulation 5kV AC rms

**CAUTION: NO INPUT POLARITY CHANGE ALLOWED!**

Part No.: SINGLE	Input voltage	Output voltage	1 Watt		2 Watt		Part No.: DUAL	Input voltage	Output voltage	1 Watt		2 Watt	
			Output current	Output current	Output current	Output current							
MED-FS16U-0505 MED-FS16U-0512 MED-FS16U-0515	5V DC	5V DC 12V 15V	200mA 83mA 66mA	400mA 166mA 133mA	MED-FS16U-0505D MED-FS16U-0512D MED-FS16U-0515D	5V DC	± 5V DC ±12V ±15V	±100mA ± 42mA ± 33mA	±200mA ± 83mA ± 67mA				
MED-FS16U-1205 MED-FS16U-1212 MED-FS16U-1215	12V DC	5V DC 12V 15V	200mA 83mA 66mA	400mA 166mA 133mA	MED-FS16U-1205D MED-FS16U-1212D MED-FS16U-1215D	12V DC	± 5V DC ±12V ±15V	±100mA ± 42mA ± 33mA	±200mA ± 83mA ± 67mA				
MED-FS16U-1505 MED-FS16U-1512 MED-FS16U-1515	15V DC	5V DC 12V 15V	200mA 83mA 66mA	400mA 166mA 133mA	MED-FS16U-1505D MED-FS16U-1512D MED-FS16U-1515D	15V DC	± 5V DC ±12V ±15V	±100mA ± 42mA ± 33mA	±200mA ± 83mA ± 67mA				
MED-FS16U-2405 MED-FS16U-2412 MED-FS16U-2415	24V DC	5V DC 12V 15V	200mA 83mA 66mA	400mA 166mA 133mA	MED-FS16U-2405D MED-FS16U-2412D MED-FS16U-2415D	24V DC	± 5V DC ±12V ±15V	±100mA ± 42mA ± 33mA	±200mA ± 83mA ± 67mA				



**Any other input & output voltages available**  
(for example 3,3V)

PIN CONNECTION		
PIN	single	dual
1	+ IN	+ IN
2	- IN	- IN
3 - 13	NP	NP
14	+ Vout	+ Vout
15	NC	- Vout
16	- Vout	COM

**Input capacitor 6,8 - 10µF is a must.**

ALL DIMENSIONS IN MM (INCHES)  
MILLIMETERS +/- 0,50mm  
(INCHES +/- 0,02")

All pins on a 2,54mm pitch  
Note: NC = No connection; NP = No pin  
Dot denote pin 1

All specifications typical @ Ta +25°C  
Nom. Vin & full load, unless otherwise specified!

We can offer EMC - Filter  
according to EN55011/22 Class B.

Specification may be changed without notice  
please contact office for verification