

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.
 (10% to 100% full load)
 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.

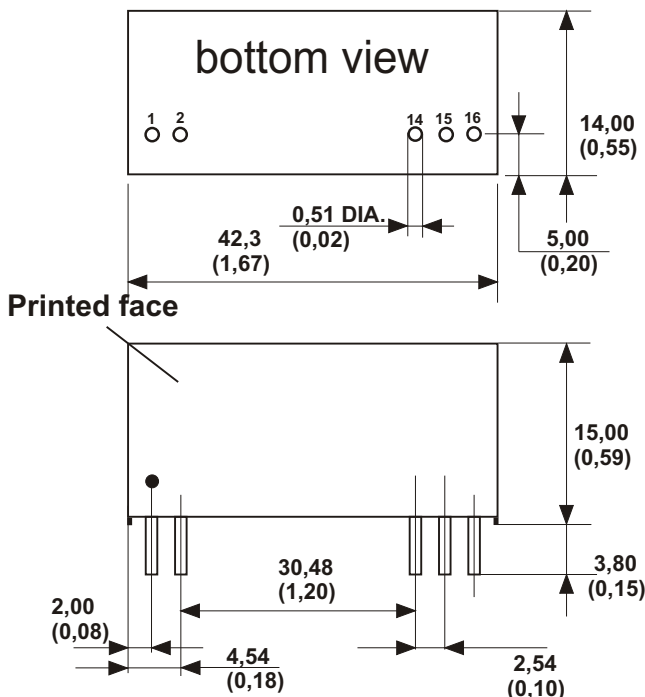
Ripple: typ. 150mVp-p
Temperature coefficient: +/- 0,02% / °C
Insulation test voltage: 10kV AC rms 1min
Insulation voltage: 5kV AC rms continuous
Efficiency: up to 80%
Short circuit protection: continuous
Inrush overload: max. 30%
couple capacitance: ~10pF
clearance/creepage: >27mm min.

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

Specification may be changed without notice
please contact office for verification

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