

# PFT0H007J8 7A 80V Filter Module



## **Features**

- 80V maximum voltage
- 7A maximum current
- Suitable for most DC-DC converters
- Industry standard package
- Compact size: 1" x 1"
- Wide operating temperature range: -40°C to +100°C

#### **Product Description**

This PFT0H007J8 filter attenuates both differential-mode and common-mode conducted noise generated by DC-DC converters. This multi-stage filter is optimized to provide high insertion loss over the entire frequency range regulated by FCC and CISPR for conducted emissions.

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#### Absolute Maximum Rating

Excessive stresses over these absolute maximum ratings can cause permanent damage to the filter module. Operation should be limited to the conditions outlined under the Electrical Specification Section.

Parameter	Min	Max	Unit
Operating Voltage (continuous)	-	80	Vdc
Operating Voltage ( < 100ms, operating)	-	100	Vdc
Isolation voltage from I/O to GND	-	2,250	Vdc
Operating Case Temperature	-40	100	°C
Storage Temperature	-55	125	°C

#### **Electrical Specifications**

These specifications are valid over the full range of input voltage, operating temperature unless noted otherwise.

Parameter	Min	Max	Unit
Operating Voltage	0	80	Vdc
Operating Current (RMS)	-	7	A
Resistance per leg	-	20.5	mΩ

Note: The filter module is not internally fused. An input line fuse must always be used.

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# **Attenuation Specifications**

Pa	arameter	Min	Typical	Max	Unit
Common-mode 50Ω Circuit	500kHz	20	15	-	dB
	2MHz	24	20	-	dB
	30MHz	24	20	-	dB
	500kHz	22	20	-	dB
Differential-mode 50Ω Circuit	1MHz	24	20	-	dB
	30MHz	24	20	-	dB

#### **General Specifications**

Parameter	Min	Typical	Max	Unit
Calculated MTBF (Telecordia SR-332, 2011, Issue 3), full load, 40°C, 60% upper confidence level, Vin = 75V	-	64	-	10 <sup>6</sup> -hour

#### **Internal Schematic**

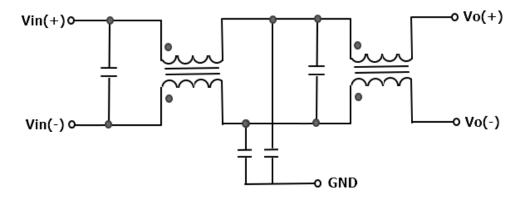
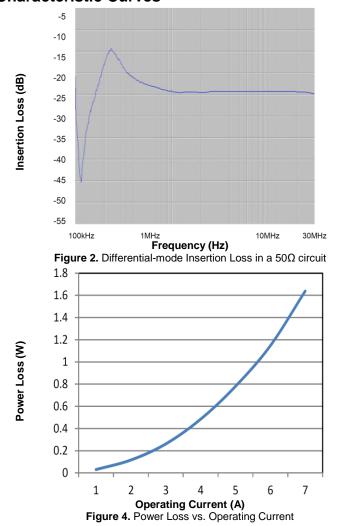
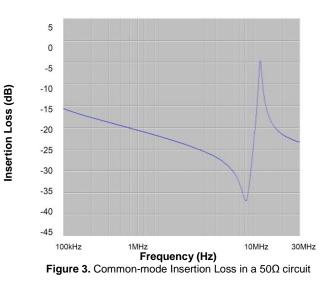


Figure 1. Internal Schematic

# Leading the Advancement of Power Conversion Characteristic Curves

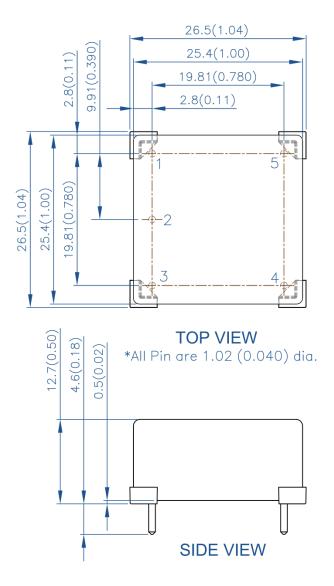


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### **Mechanical Drawing**



Pin	Name	Function
1	Vin (+)	Positive input voltage
2	GND	Power ground
3	Vin (-)	Negative input voltage
4	Vout (-)	Negative output voltage
5	Vout (+)	Positive output voltage

#### Notes:

- All dimensions in mm (inches) 1)
- Tolerances:  $x \pm .5$  ( $xx \pm 0.02$ ) .xx + .25 ( $xxx \pm 0.010$ ) All pins are 1.02mm (0.040") dia. with +/- 0.10mm (0.004") tolerance; the standoff shoulders are 2) 1.65mm (0.065") dia. with +/- 0.15mm (0.006") tolerance.
- Gold or Matte Tin finish with Nickel under plating.
- Weight: 17g
- 3) 4) 5) Workmanship meets or exceeds IPC-A-610 Class II.