

FLAT PACK FILTER

FOR FURTHER INFORMATION, PLEASE CONTACT THE FACTORY.

Features:

- Does Not Require External Components for Operation
- Filter Components tested to MIL-PRF-28861 Class B Group A
- 6 Line Filtering
 - Reverse Voltage Protection available (2 lines) - RVP
- Environmental: MIL-PRF-28861, Class B (Non-Hermetic)
- ISO 9001, AS 9000 Certified Facility
- Small Package Size: 2.3"x2.4"x.5"
- Performs at altitudes greater than 20,000 ft.
- Estimated Weight: 150 grams

How To Order:

FPF - 6L - R - W - (Cx)

Series	#Lines	RVP	Lead	Custom
RVP X = No Protection R = Reverse Voltage Protection		Lead P = Straight Pins W = Shielded Wires (18" length)		Custom Cx = Assigned by factory

*Standard unit is FPF-6L-R-W

Specifications: ±300Vdc (2 Lines - RVP avail.)

	Min	Max	Units
Input Voltage		300	Vdc
Rated Output Current		2	Adc
Isolation: In/Out to Case	900	900	Vdc
Operating Temperature	-55	+125	°C
Storage Temperature	-55	+125	°C
Insulation Resistance (@Rated Vdc)	500		MOhms

Performance: ±300Vdc (2 Lines - RVP avail.)

Frequency	Attenuation per MIL-STD-220
25 KHz	3 dB (f _c)
100 KHz	5 dB
300 KHz	40 dB
1.0 MHz	68 dB
1.5 MHz	70 dB
3.0 MHz	80 dB
1GHz - 4GHz	60 dB

Specifications: ±28Vdc (2 Lines - No RVP)

	Min	Max	Units
Input Voltage		50	Vdc
Rated Output Current		10	Adc
Isolation: In/Out to Case	300	300	Vdc
Operating Temperature	-55	+125	°C
Storage Temperature	-55	+125	°C
Insulation Resistance (@Rated Vdc)	500		MOhms

Performance: ±28Vdc (2 Lines - No RVP)

Frequency	Attenuation per MIL-STD-220
5.0 KHz	3 dB (f _c)
10 KHz	6 dB
30 KHz	15 dB
100 KHz	25 dB
300 KHz	35 dB
1.0 MHz	44 dB
1.5 MHz	48 dB
3.0 MHz	55 dB
1GHz-4GHz	40 dB

Specifications: ±5Vdc (2 Lines - No RVP)

	Min	Max	Units
Input Voltage		50	Vdc
Rated Output Current		1.5	Adc
Isolation: In/Out to Case	300	300	Vdc
Operating Temperature	-55	+125	°C
Storage Temperature	-55	+125	°C
Insulation Resistance (@Rated Vdc)	500		MOhms

Performance: ±5Vdc (2 Lines - No RVP)

Frequency	Attenuation per MIL-STD-220
5.0 KHz	3 dB (f _c)
10 KHz	6 dB
30 KHz	15 dB
100 KHz	25 dB
300 KHz	35 dB
1.0 MHz	44 dB
1.5 MHz	48 dB
3.0 MHz	55 dB
1GHz-4GHz	40 dB

The attenuation requirement between any two adjacent specified frequencies shall be that of the lower of the two frequencies in order to accommodate resonant dips

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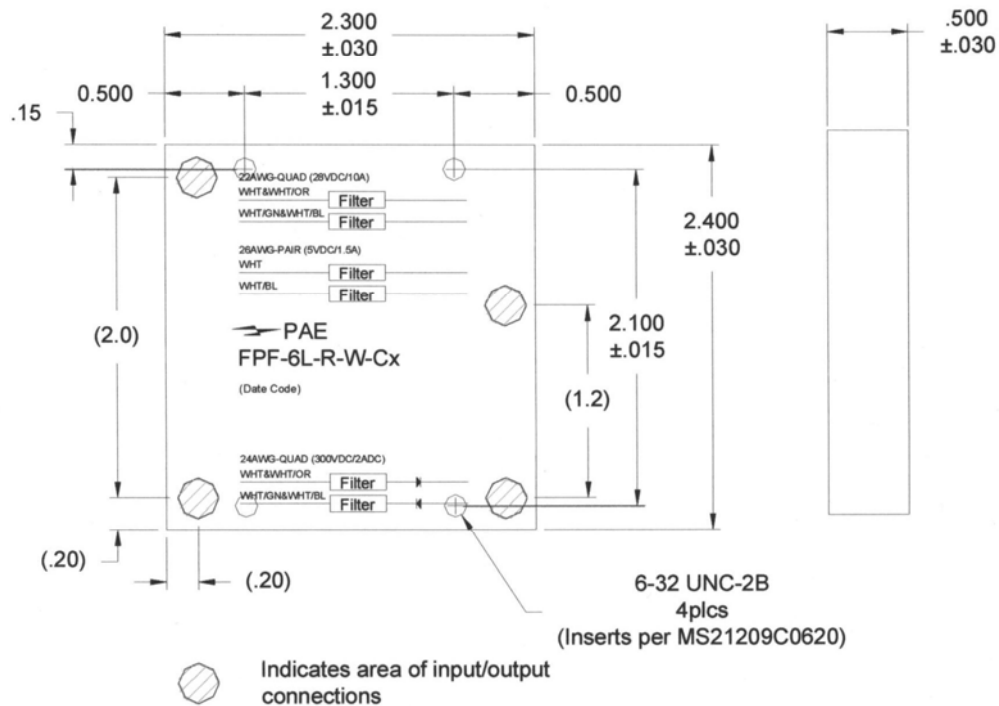
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RVP Ratings and Thermal Characteristics

	Min	Max	Units
Repetitive Peak Reverse Voltage		600	Vdc
Working Peak Reverse Voltage		600	Vdc
DC Blocking Voltage		600	Vdc
Average Forward Rectified Current		4.0	Adc
Storage Temperature	-55	+125	°C
Reference MUR440 Rectifier			

RVP Electrical Characteristics @ 25°C

	Min	Max	Units
Instantaneous Forward Voltage @ 4.0A		1.28	Vdc
Instantaneous Reverse Current at rated DC Blocking Voltage		10	uAdc
Reverse Recovery Time @ $I_R=1A, I_{rr}=.25A$		50	ns
Forward Recovery Time @ $I_F=1A, di/dt=50A/us, V_R=30V, I_{rr}=10\%I_{RM}$		75	ns
Forward Recovery Time @ $I_F=1A, di/dt=100A/us, Rec. to 1.0V$		50	ns



NOTES:
 Housing Finish:
 - Nickel per QQ-N-290 (.0001"-.0002")

Signal	Wire Type	Conductor Size	Lead Length
+/- 300 VDC	Shielded Twisted Quad	#24 AWG	18" min.
+/- 28 VDC	Shielded Twisted Quad	#22 AWG	18" min.
+/- 5 VDC	Shielded Twisted Pair	#26 AWG	18" min.

Conductors are MIL-W-22759/32, and the cables meet MIL-C-27500

Page 2/2
4/10/02