ASF461 Series

DESCRIPTION

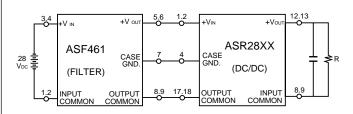
The ASF461 EMI filter will reduce the input line reflected ripple current of the ASR line of DC/DC converters to levels below the CEO3 limits of MIL-STD-461.

These EMI filters are available with military screening and built in a facility fully qualified to MIL-STD-1772. Two grades are offered with different screening options. Refer to Part Number section.

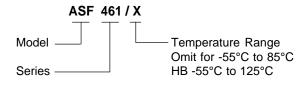
The ASF461 Filter is built using thickfilm hybrid technology and seam welded in a hermetic kovar package for high reliability.

These units offer superior noise reduction and power dissipation when compared with similar filters from our competitors. No derating is required over the entire operating temperature range.

TYPICAL APPLICATION

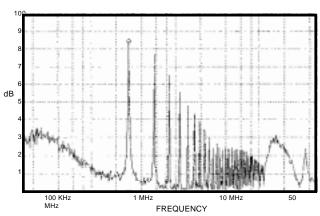


PART NUMBER

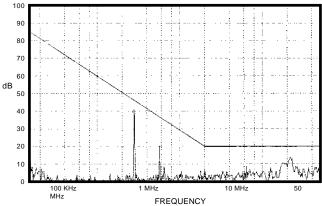


FEATURES

- Uses less than 1.2 sq. in. of board space
- -55°C to +125°C operation
- Greater than 50db ripple current reduction
- Optional military screening
- No derating for -55° C to $+125^{\circ}$ C operation



Narrow Band Spectrum of an ASR 2815D without EMI Filter

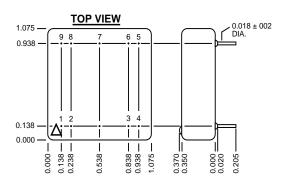


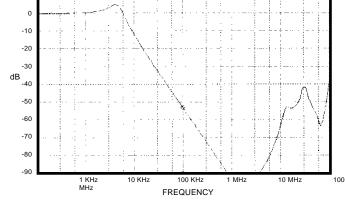
Narrow Band Spectrum of an ASR 2815D with ASF461 Filter

SPECIFICATIONS

Parameter	Condition	Min	Тур	Max	Unit
INPUT VOLTAGE	STEADY STATE	0	28	50	VDC
INPUT CURRENT	STEADY STATE			420	mAdc
OUTPUT VOLTAGE	STEADY STATE	Vоит	= Vin (Iin	x Roc)	VDC
OUTPUT CURRENT	STEADY STATE			420	mAdc
DC RES (Rpc) ³	STEADY STATE	1.7	2.0	2.3	ohms
POWER DISS.	MAX. CURRENT 420 mA			1.6	watts
NOISE REJECTION	100 KHz 500 KHz TO 10 MHz	-40 -60			db
CAPACITANCE	ANY PIN TO CASE			4200	pf
ISOLATION	ANY PIN TO CASE 500Vdc	100			Mohms
OPERATING TEMP ¹	BASEPLATE	-55	+25	+125	°C
STORAGE TEMP	BASEPLATE	-65	+25	+150	°C
WEIGHT				39	Grams

MECHANICAL OUTLINE





PIN DESCRIPTION

DESIGNATION	PIN
In common	1,2*
+VIN	3,4*
+VOUT	5,6*
Case GND	7
Out common	8.9*

^{*}Make external connection of both pins

ASF 461 Frequency Response

SCREENING PROCESS

2017	
1000	
1008	C
1010	С
2001	A
1015	Tc = Tcmax
25°C and ex	tremes
2009	
1	010 001 015 5°C and ex

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LAMBDA ADVANCED ANALOG INC.

MIL-STD-1772 Qualified

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