

# LDA15F

LDA 15 F -5 -□

① ② ③ ④ ⑤

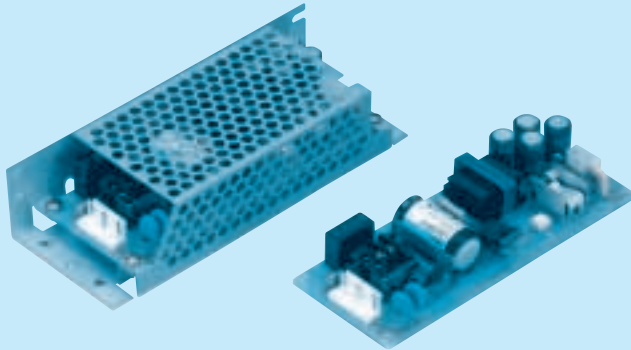


Recommended EMI/EMC Filter  
NAC-06-472



High voltage pulse noise type : NAP series  
Low leakage current type : NAM series  
\*The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name
- ② Output wattage
- ③ Universal input
- ④ Output voltage
- ⑤ Optional \*2
- C :with Coating
- G :Low leakage current
- S :with Chassis
- SN :with Chassis & cover
- Y :with Potentiometer



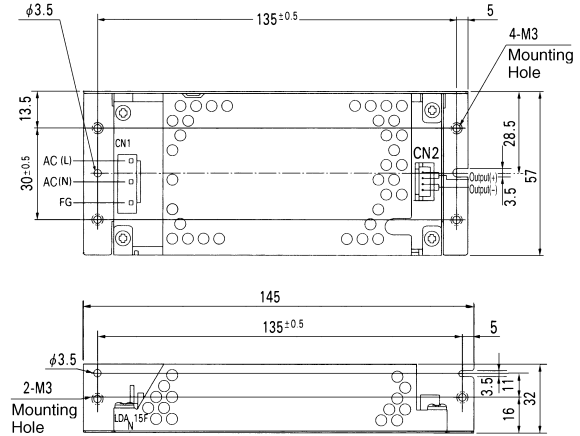
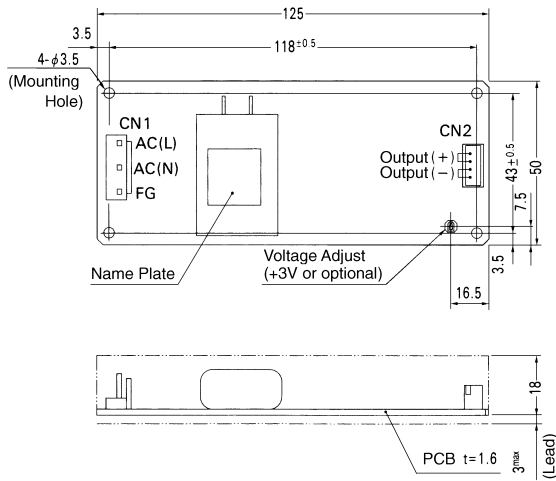
MODEL	LDA15F-3	LDA15F-5	LDA15F-12	LDA15F-15	LDA15F-24
MAX OUTPUT WATTAGE[W]	9	15	15.6	15	16.8
DC OUTPUT	3V 3.0A	5V 3.0A	12V 1.3A	15V 1.0A	24V 0.7A

## SPECIFICATIONS

	MODEL	LDA15F-3	LDA15F-5	LDA15F-12	LDA15F-15	LDA15F-24	
INPUT	VOLTAGE[V]	AC85 - 264 1 φ or DC110 - 370					
	CURRENT[A]	ACIN 100V	0.37typ (Io=100%)				
		ACIN 200V	0.23typ (Io=100%)				
	FREQUENCY[Hz]	47 - 440 or DC					
	EFFICIENCY[%]	70typ	74typ	76typ	76typ	78typ	
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%) (At cold start)				
		ACIN 200V	30typ (Io=100%) (At cold start)				
LEAKAGE CURRENT[mA]	0.75max (60Hz, According to UL, CSA, VDE and DEN-AN)						
OUTPUT	VOLTAGE[V]	3	5	12	15	24	
	CURRENT[A]	3	3	1.3	1	0.7	
	LINE REGULATION[mV]	20max	20max	48max	60max	96max	
	LOAD REGULATION[mV]	40max	40max	100max	120max	150max	
	RIPPLE[mVp-p]	0 to +50°C	80max	80max	120max	120max	120max
		-10 - 0°C	140max	140max	160max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50°C	120max	120max	150max	150max	150max
		-10 - 0°C	160max	160max	180max	180max	180max
	TEMPERATURE REGULATION[mV]	50max	50max	120max	150max	240max	
	DRIFT[mV]	*1 20max	20max	48max	60max	96max	
	START-UP TIME[ms]	200max (ACIN 100V, Io=100%)					
	HOLD-UP TIME[ms]	10typ (ACIN 85V, Io=100%) 20typ (ACIN 100V, Io=100%) 100typ (ACIN 200V, Io=100%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	2.85 - 3.6	Fixed ("Y"which can be adjusted the output is available as option :5, 12, 15, 24V ±10%)				
OUTPUT VOLTAGE SETTING[V]	—	4.9 - 5.3	11.5 - 12.5	14.4 - 15.6	23.0 - 25.0		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION	4.00V min	Works over 115% of rating, by zener diode clamping				
	OPERATING INDICATION	Not provided					
	REMOTE SENSING	Not provided					
ISOLATION	REMOTE ON/OFF	Not provided					
	INPUT-OUTPUT	AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)					
	INPUT-FG	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)					
ENVIRONMENT	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)					
	OPERATING TEMP.,HUMID.AND ALTIITUDE	-10 to +60°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE) 3.000m (10.000feet) max					
	STORAGE TEMP.,HUMID.AND ALTIITUDE	-20 to +75°C, 20 - 90%RH (Non condensing) 9.000m (30.000feet) max					
	VIBRATION	10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis					
SAFETY AND NOISE REGULATIONS	IMPACT	196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis					
	AGENCY APPROVALS	UL60950-1, EN60950-1, EN50178, CSA C22.2 No.60950-1 Complies with DEN-AN and IEC60950-1					
	CONDUCTED NOISE	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B					
OTHERS	CASE SIZE/WEIGHT	50 X 21 X 125mm (W X H X D) /95g max (without chassis and cover)					
	COOLING METHOD	Convection					

\*1 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.  
 \*2 Please contact us about safety approvals for the model with option.  
 \* Avoid prolonged use under over-load.  
 \* Series/Parallel operation with other model is not possible.  
 \* Derating is required when operated with chassis and cover.

## External view



I/O Connector	Mating Connector	Terminal
CN1	B3P5-VH	VHR-5N
		Chain:SVH-21T-P1.1
		Loose:BVH-21T-P1.1
CN2	B4B-XH-A	XHP-4
		Chain: SXH-001T-P0.6
		Loose: BXH-001T-P0.6

(Mfr : J.S.T.)

### <PIN CONNECTION>

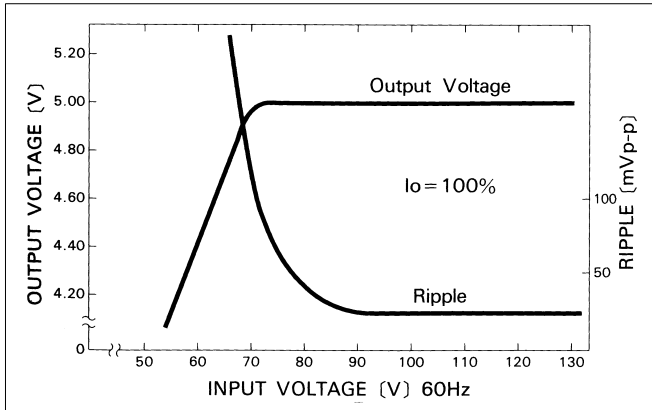
Pin No.	Input
1	AC(L)
2	AC(L)
3	AC(N)
4	AC(N)
5	FG

Pin No.	Output
1	-V
2	-V
3	+V
4	+V

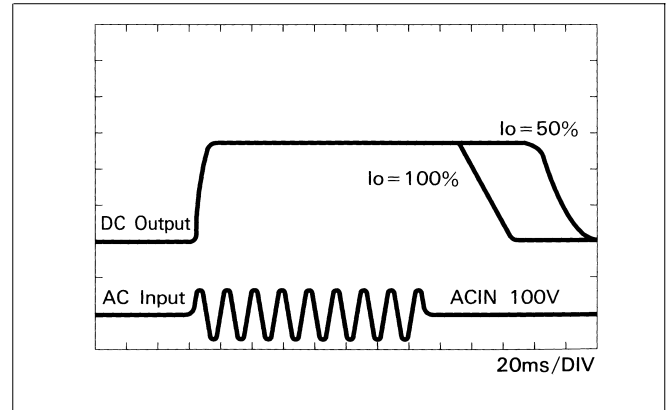
- ※ Weight : 95g or less (Without chassis and cover)
- ※ Tolerance : ± 1
- ※ Dimensions in mm.
- ※ PCB Material : Glass composite (CEM3)
- ※ Chassis and cover is optional.
- ※ Mounting torque : 0.6N·m (6.3kgf·cm) max

## Performance data

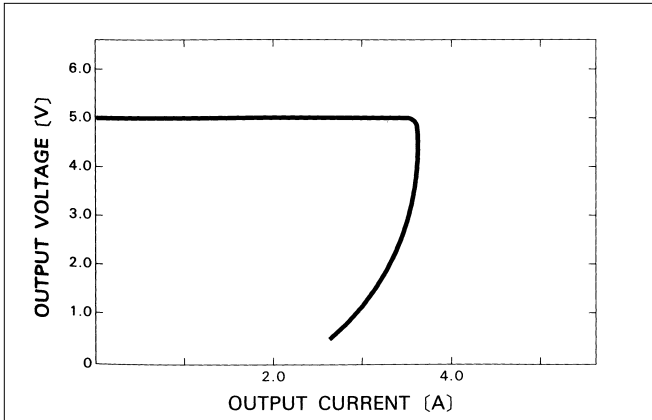
### ■ STATIC CHARACTERISTICS (LDA15F-5)



### ■ RISE TIME & FALL TIME (LDA15F-5)



### ■ OVERCURRENT CHARACTERISTICS (LDA15F-5)



### ■ DERATING CURVE

