

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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■ Features :

- Wide 4:1 DC input range
- Protections: Short circuit / Overload / Over voltage
- 1500VDC I/O isolation
- Built-in EMI filter
- Cooling by free air convection
- Output voltage trimming function
- Built-in remote ON-OFF control
- 100% full load burn-in test
- Lost cost
- High reliability
- 2 years warranty



PECIFIC	CATION			T				1					is C 6	
MODEL		NSD15-12D5		NSD15-12D12		NSD15-12D15		NSD15-48D5		NSD15-48D12		NSD15-48D15		
	DC VOLTAGE	5V	-5V	12V	-12V	15V	-15V	5V	-5V	12V	-12V	15V	-15V	
ОИТРИТ	RATED CURRENT	1.5A	1.5A	0.62A	0.62A	0.5A	0.5A	1.5A	1.5A	0.62A	0.62A	0.5A	0.5A	
	CURRENT RANGE	0.07 ~ 1.5A	0.07 ~ 1.5A	0.03 ~ 0.62A	0.03 ~ 0.62A	0.02 ~ 0.5A	0.02 ~ 0.5A	0.07 ~ 1.5A	0.07 ~ 1.5A	0.03 ~ 0.62A	0.03 ~ 0.62	0.02 ~ 0.5A	0.02 ~ 0.5	
	RATED POWER	15W		14.88W		15W		15W		14.88W		15W		
	CAPACITIVE LOAD (max.)	±1000uF												
	RIPPLE & NOISE (max.) Note.2	100mVp-p	(25% ~ 100	0% load)										
	VOLTAGE TOLERANCE Note.3	±3.0%		±2.5%		±2.5%		±3.0%		±2.5%		±2.5%		
	LINE REGULATION	±1.0% at	10% ~ 100)% load										
	LOAD REGULATION	±2.0%		±1.0%		±1.0%		±2.0%		±1.0%		±1.0%		
	TRIM OUTPUT (Typ.)	±5.0%	±5.0%		±5.0%		±3.0%		±5.0%		±5.0%		±3.0%	
	SETUP TIME	100ms/RATED DC INPUT at full Load												
INPUT	RATED DC INPUT	12VDC				48VDC								
	VOLTAGE RANGE Note.6	9.4 ~ 36VDC				18 ~ 72VDC			C					
	EFFICIENCY (Typ.)	76%	76% 80%			80%		80%		84%		84%		
	DC CURRENT	1.8A/12VDC						0.4A/48VI	OC					
	SHUTDOWN IDLE CURRENT	20mA	20mA											
PROTECTION	OVERLOAD		Above 105% rated output power Protection type : Over power limiting, recovers automatically after fault condition is removed											
	OVER VOLTAGE(CLAMP)	7.25 ~ 9V -7.25 ~ -9V 13.8 ~ 18V -13.8 ~ -18V 17.3 ~ 22.5V -17.3 ~ -22.5V 7.25 ~ 9V -7.25 ~ -9V 13.8 ~ -18V -13.8 ~ -18V 17.3 ~ 22.5V -17.3 ~ -18V -13.8 ~ -18V										-17.3 ~ -22		
	SHORT CIRCUIT Note.4	Recovers automatically after fault condition is removed											11.0 22	
FUNCTION	ON/OFF CONTROL		Logic "1" or open circuit : ON Logic "0" or short to PIN2 : OFF											
ENVIRONMENT	WORKING TEMP.	-25 ~ +70°C												
	WORKING HUMIDITY	0% ~ 95% RH max.												
		-40 ~ +85°C, 0 ~ 95% RH												
	TEMP. COEFFICIENT	±0.03%/C (0~50°C)												
	SAFETY STANDARDS		UL60950-1, EAC TP TC 004 approved, Design refer to TUV EN60950-1											
SAFETY &	ISOLATION VOLTAGE													
EMC (Note 5)	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH												
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EAC TP TC 020												
	EMC IMMUNITY	<u> </u>	Compliance to EN61000-4-2,3,4,6,8; EN55024, light industry level, criteria A, EAC TP TC 020											
	MTBF	1673.1K hrs min. MIL-HDBK-217F (25°C)												
	DIMENSION	50.8*38.1*9.82mm (2"*1.5"*0.387") (L*W*H)												
	PACKING	0.03Kg; 180pcs/6.4Kg/0.97CUFT												
NOTE	1. All parameters NOT specially mentioned are measured at 12, 48VDC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Short circuit no more than 60 seconds. 5. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 230mm*230mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 6. Derating to 80% load is needed for NSD15-48D series at 18Vdc input voltage. Full output wattage can be acquired when the input voltage is higher than 20Vd. 7. EMC filter suggestion: 804 Vo 6804 PSU Vo											v to		



