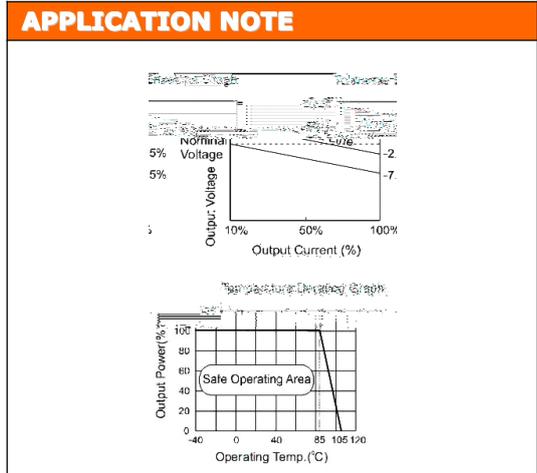


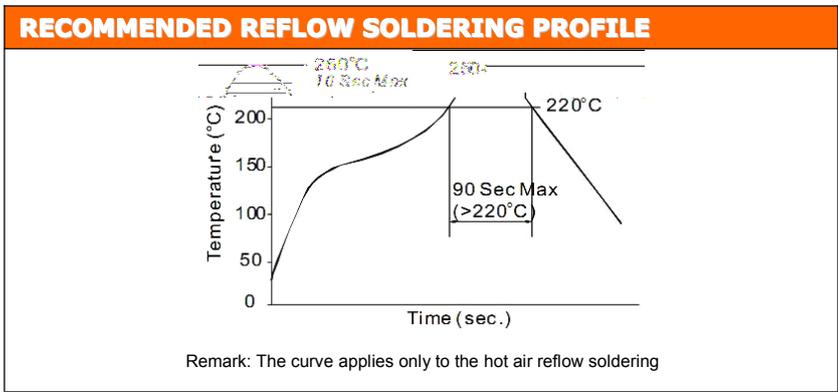
PRODUCT PROGRAM

Part Number	Input		Voltage (VDC)	Output		Efficiency (%Typ)
	Voltage(VDC)			Current(MA)		
	Nominal	Range	Max	Min.		
D050505NXT-1W	5	4.5-5.5	5/5	100/100	10/10	70
D050909NXT-1W	5	4.5-5.5	9/9	56/56	6/6	75
D051212NXT-1W	5	4.5-5.5	12/12	42/42	4/4	79
D051515NXT-1W	5	4.5-5.5	15/15	33/33	3/3	80
D120505NXT-1W	12	10.8-13.2	5/5	100/100	10/10	72
D120909NXT-1W	12	10.8-13.2	9/9	56/56	6/6	75
D121212NXT-1W	12	10.8-13.2	12/12	42/42	4/4	78
D121515NXT-1W	12	10.8-13.2	15/15	33/33	3/3	80

OUTPUT SPECIFICATIONS					
Item	Test Conditions	Min.	Typ.	Max.	Units
Output power		0.1		1	W
Line regulation	For Vin change of $\pm 1\%$			± 1.2	%
Load regulation	10% to 100% load(5V output)		12.8	15	%
Load regulation	10% to 100% load(9V output)		8.3	10	%
Load regulation	10% to 100% load(12V output)		6.8	10	%
Load regulation	10% to 100% load(15V output)		6.0	10	%
Output voltage accuracy	See tolerance envelope graph				
Temperature drift	100% full load			± 0.03	%/°C
Ripple & Noise*	20MHz Bandwidth		50	75	mVp-p
Switching frequency	Full load, nominal input		100		KHz

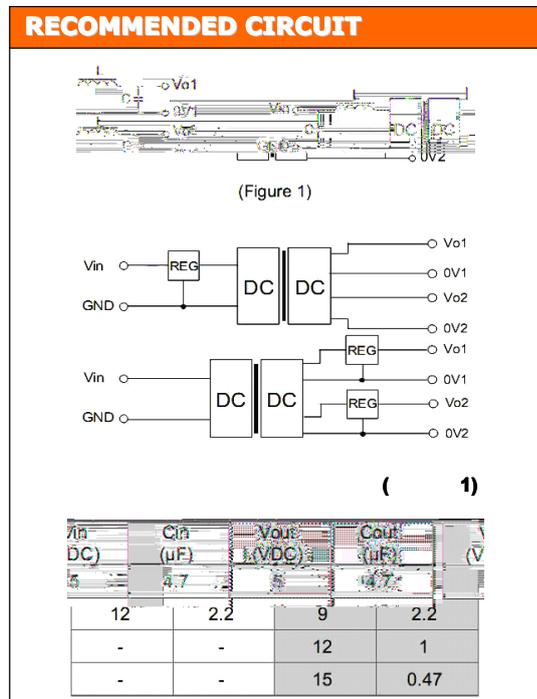


*Test ripple and noise by "Parallel cable"method . See detailed operation instructions at Testing of Power Converter section, application notes.



TYPICAL CHARECTERISTICS

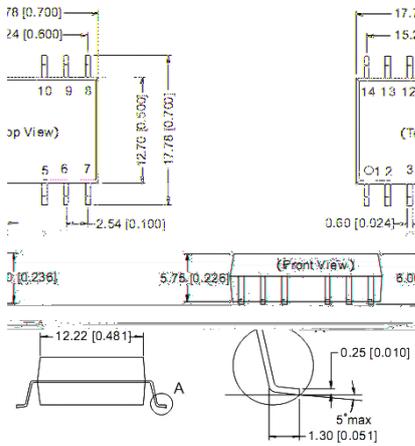
- To ensure this module can operate efficiently and reliably, a minimum load is specified for this kind of DC/DC converter in addition to a maximum load (namely full load). During operation, make sure the specified range of input voltage is not exceeded, the minimum output load could not be less than 10% of the full load. If the actual output power is very small, please connect a resistor with proper resistance at the output end in parallel to increase the load, or use our company products with a lower rated output power (D-NXT -W2/W5).
- If you want to further decrease the input/output ripple , an "LC" filtering network may be connected to the input and output ends of the DC/DC converter, see (Figure1). It should also be noted that the inductance and the frequency of the "LC" Filtering network should be staggered with the DC/DC frequency to avoid mutual interference. However, the capacitance of the output filter capacitor must be proper . If the capacitance is too big , a startup problem might arise . For every channel of output,provided the safe and reliable operation is ensured, the greatest capacitance of its filter capacitor sees (Table 1).
- The simplest device for output voltage regulation , over-voltage and over-current protection is a linear voltage regulator with overheat protection that is connected to the input or output end in series (Figure2).
- Under normal operating conditions , the output circuit of these products has no protection against overload . The simplest method is to connect a self-recovery fuse in series at the input end or add a circuit breaker to the circuit.



It's not recommended to connect any external capacitor in the application field with less than 0.5 watt output.

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT

MECHANICAL DIMENSIONS



Note:
 Unit: mm[inch]
 Pin section tolerances: $\pm 0.10\text{mm}$ [0.004inch]
 General tolerances: $\pm 0.25\text{mm}$ [0.010inch]

RECOMMENDED FOOTPRINT

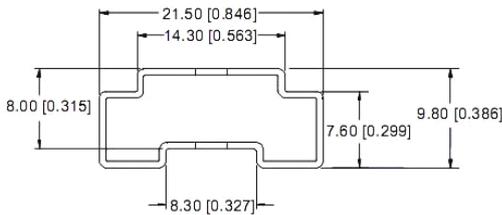


ED FOOTPRINT DETAILS

Pin	Function
1	GND
2	Vin
5	0V1
6	Vo1
9	Vo2
10	0V2
Others	NC

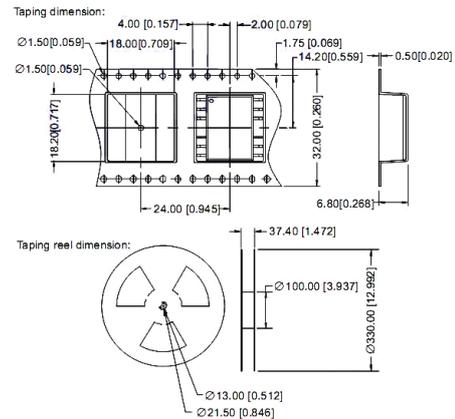
NC: No Connection

TUBE OUTLINE DIMENSIONS



Note:
 Unit: mm[inch]
 General tolerances: $\pm 0.50\text{mm}$ [$\pm 0.020\text{inch}$]
 L=530mm[20.866inch] Devices per tube quantity: 28pcs
 L=220mm[8.661inch] Devices per tube quantity: 10pcs
 Short tube inner package dimensions : L*W*H= 255*170*80mm
 Short tube outer package dimensions(with six inner package boxes):
 L*W*H= 375*280*270mm
 Long tube inner package dimensions : L*W*H= 580*200*100mm
 Long tube outer package dimensions(with two inner package boxes):
 L*W*H= 600*215*220mm
 Long tube outer package dimensions(with three inner package boxes):
 L*W*H= 600*215*325mm

REEL PACKING OUTLINE DIMENSIONS



Note:
 Unit: mm[inch]
 General tolerances: $\pm 0.50\text{mm}$ [0.020inch]
 Per reel of packing quantity: 400pcs
 Inner package carton dimensions: L*W*H=365*350*105mm
 Tube Quantity : 800pcs
 Outer package carton dimensions: L*W*H=390*360*245mm
 Tube Quantity: 1600pcs