

FEATURES :

- Small Footprint
- 18PIN SMD Package
- High Efficiency up to 75%
- Unregulated Output Types
- High Power Density
- Industry Standard Pinout
- Operating Temperature:-40°C TO +85°C
- No External Component Required

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Output Voltage	Output Current	Efficiency
	Vdc	mA	%TYP
13DS2-XXS03N33KV	3.3	303	65
13DS2-XXS05N33KV	5	200	70
13DS2-XXS09N33KV	9	111	75
13DS2-XXD03N33KV	±3.3	±151	65
13DS2-XXD05N33KV	±5	±100	70
13DS2-XXD09N33KV	±9	±56	75

Note:

1."XX" Is Input Voltage:03=3.3,05=5Vdc,09=9Vdc

2.The input voltage increases, there will be an increase in efficiency.

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	Vo,Io Nom			±10	%
Filter	Capacitor				

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	100% full load			±5	%
Short Circuit Protection	Short Term			1	Sec
Line Regulation	For 1.0% OF Vin		1.2		%
Load Regulation	10% To 100% F.L			15	%
Ripple & Noise	BW=DC To 20MHz			75	mVp-p
Transient response setting time	50% load step change		350		us

YUAN DEAN SCIENTIFIC



DC-DC Converter

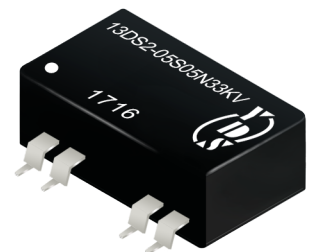
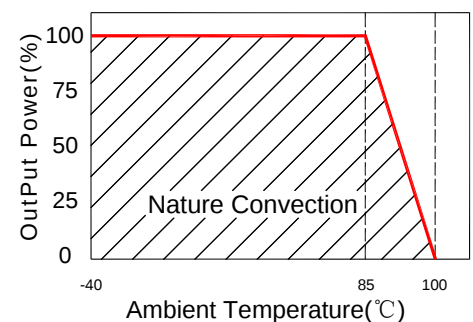
13DS2-N33KV SERIES

1Watt

3KV Isolated

Single & Dual Output

SMD

**Temperature Derating Graph**
www.yds.com.tw


TEL : 886-6-3842899 FAX : 886-6-3843288

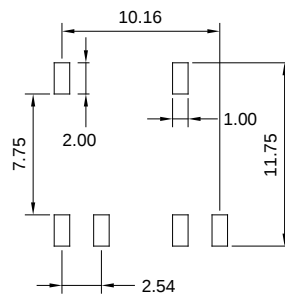
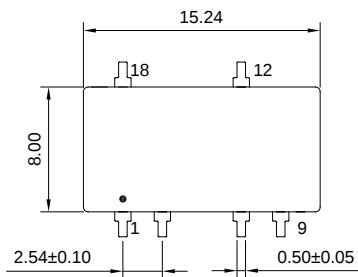
E-MAIL : ydsweb@yds.com.tw

Rev:o 2017/5/12

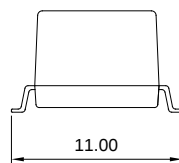
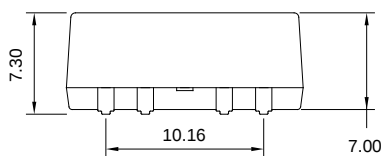
General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency	Full load, nominal input		100		KHz
Operating Temperature		-40		+85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
MTBF	MIL-HDBK-217F @25°C	3500000			Hours
Weight			1.36		g
Dimensions		15.24x8.0x7.3			mm

Markings and dimensions



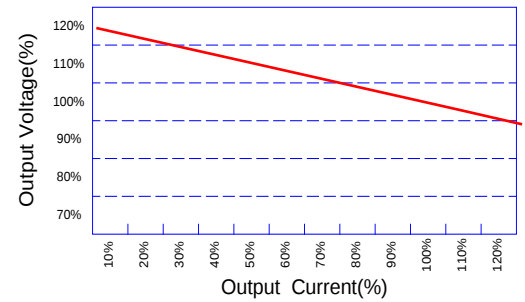
SUGGESTED PAD LAYOUT

Unit : mm Unless otherwise specified, all tolerances are ± 0.25

PIN Connection

PIN	1	3	7	9	12	18
Single	-Vin	+Vin	-Vout	-Vout	+Vout	NC
Dual	-Vin	+Vin	Com	-Vout	+Vout	NC

Tolerance Envelope Graph



Part Number

13DS2 - 05 S 05 N 3 3KV
A B C D E F G

A:Series
B:Input Voltage
C:Single Output
D:Output Voltage
E:Unregulated(N)
F:Package
G:Isolation Voltage

Recommended Test Circuit

