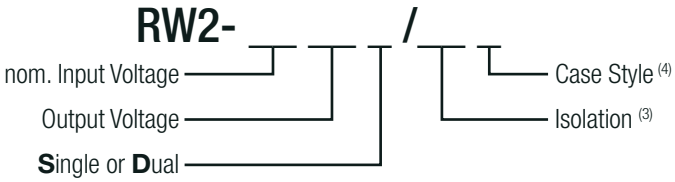
Model Numbering



Notes:

Note3: „**/H2**" = 2kVDC isolation; „**/H3**" = 3kVDC isolation; without suffix standard 1kVDC isolation

Note4: add suffix „**/SMD**" for SMD package or **„/B"** for Mini DIP16 THT package; without suffix = standard DIP16 package (refer to "DIP16")

Ordering Examples:

RW2-2405S/B:	18-36Vin	5Vout	Single	1kVDC Isolation	Mini DIP16 Package
RW2-1212D/H2:	9-18Vin	±12Vout	Dual	2kVDC Isolation	DIP16 Package
RW2-0515D/H3/SMD:	4.5-9Vin	±15Vout	Dual	3kVDC Isolation	SMD Package
RW2-4812S/H2/B	36-72Vin	12Vout	Single	2kVDC Isolation	Mini DIP16 Package

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

BASIC CHARACTERISTICS

Parameter	Condition	Min.	Typ.	Max.
Input Voltage Range	nom. Vin= 5VDC	4.5VDC		9VDC
	12VDC	9VDC		18VDC
	24VDC	18VDC		36VDC
	48VDC	36VDC		72VDC
Minimum Load (5)		10%		
Internal Operating Frequency		100KHz		700kHz
Output Ripple and Noise	20MHz BW			50mVp-p

Notes:

Note5: Operation below 10% load won't harm the converter, but specifications may not be met.

REGULATIONS

Parameter	Condition	Value
Output Accuracy		±2.0% typ.
Line Regulation		±0.5% max.
Load Regulation	20% to 100% load	0.5% typ.

PROTECTION

Parameter	Type		Value
Short Circuit Protection (SCP)			continous
Isolation Voltage (6)	standard without suffix	tested for 1 second rated for 1 minute	1kVDC 500VAC/60Hz
	/H2 version	tested for 1 second rated for 1 minute	2kVDC 1kVAC/60Hz
	/H3 version	tested for 1 second rated for 1 minute	3kVDC 1.5kVAC/60Hz
Isolation Resistance			1GΩ min.
Isolation Capacitance			30pF max.
Insulation Grade			functional

Notes:

Note6: For repeat Hi-Pot testing, reduce the time and/or the test voltage

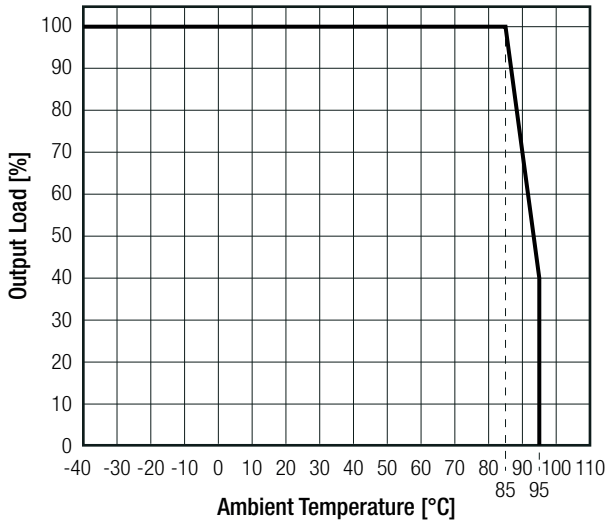
Note7: Refer to local safety regulations if input over-current protection is also required. Recommended fuse: slow blow type

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

ENVIRONMENTAL

Parameter	Condition		Value
Operating Temperature Range	full load @ free air convection (see graph)		-40°C to +85°C
Maximum Case Temperature			+100°C
Operating Altitude			2000m
Operating Humidity	non-condensing		95% RH max.
Pollution Degree			PD2
MTBF	according to MIL-HDBK-217F, G.B.	+25°C +85°C	4366 x 10^3 hours 658 x 10^3 hours

Derating Graph
(@ Chamber and free air convection)

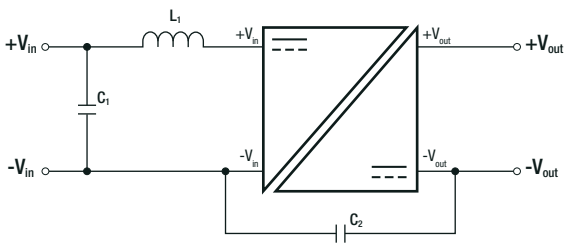


SAFETY AND CERTIFICATIONS

Certificate Type (Safety)	Report / File Number	Standard
Information Technology Equipment, General Requirements for Safety	SPCLVD1605077-10	IEC60950-1:2005, 2nd Edition + A2:2013 EN60950-1:2006 + A2:2013
Medical Electric Equipment, General Requirements for Safety and Essential Performance	WD-SE-R-180675-A0	IEC60601-1:2005, 3rd Edition + A1:2012 EN60601-1:2006 + A12:2014
EAC	RU-AT.AB49.B.09571	TP TC 004/2011
RoHS2+	TWNC00635328	RoHS-2011/65/EU

EMC Compliance	Condition	Standard / Criterion
Electromagnetic compatibility of multimedia equipment - Emission requirements (8)	with external filter (see filter suggestion below)	EN55032, Class A EN55032, Class B

EMC Filtering Suggestions according to EN55032



Component List Class A

Models	C1	C2	L1
RW2-1212S/H2/SMD RW2-2405S/H2	10µF/100V MLCC	330pF	5.6µH choke RLS-567

Component List Class B

Models	C1	C2	L1
RW2-1212S/H2/SMD RW2-2405S/H2	10µF/100V MLCC	330pF	22µH choke RLS-226

Notes:

Note8: Filter suggestions are valid for indicated part numbers only.
For other part numbers, please contact RECOM tech support for advice.

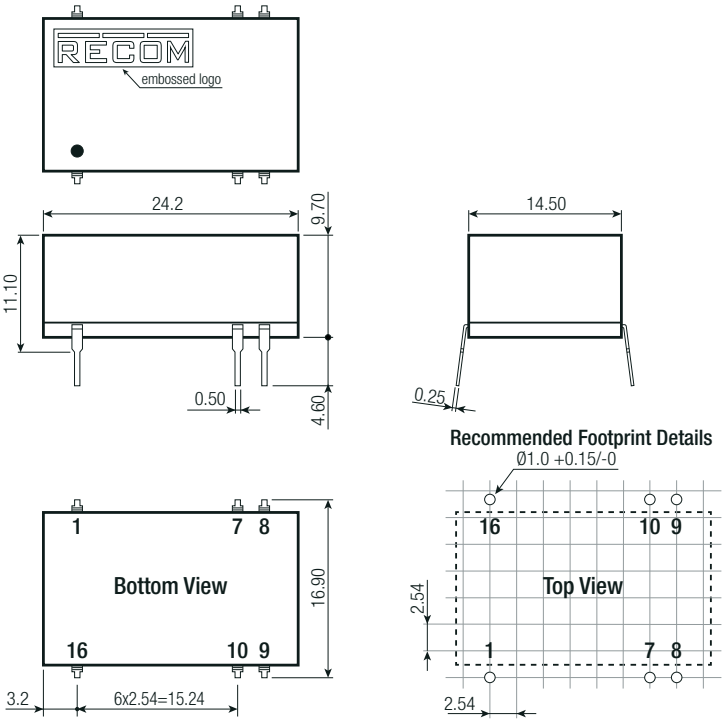
Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

DIMENSION AND PHYSICAL CHARACTERISTICS

Parameter	Type	Value
Material	case potting PCB	non-conductive black plastic, (UL94 V-0) epoxy, (UL94 V-0) FR4, (UL94 V-0)
Dimension (LxWxH)	Mini DIP16 DIP16 SMD	22.1 x 12.55 x 8.50mm 24.2 x 14.50 x 9.70mm 24.2 x 14.50 x 10.20mm
Weight		6.4g typ.

Dimension Drawing (mm)

DIP16

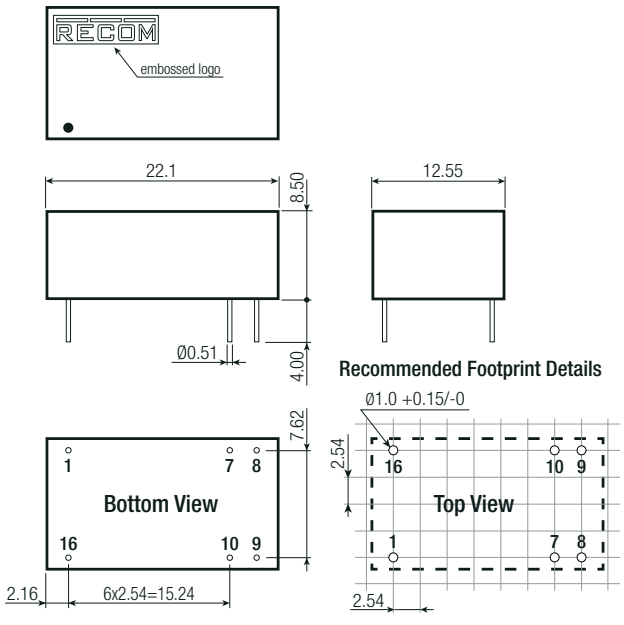


Pinning information

Pin #	Single	Dual
1	-Vin	-Vin
7	NC	NC
8	NC	Com
9	+Vout	+Vout
10	-Vout	-Vout
16	+Vin	+Vin

Tolerance: xx.x= ±0.5mm
xx.xx= ±0.35mm

Mini DIP16 (/B)



Pinning information

Pin #	Single	Dual
1	-Vin	-Vin
7	NC	NC
8	NC	Com
9	+Vout	+Vout
10	-Vout	-Vout
16	+Vin	+Vin

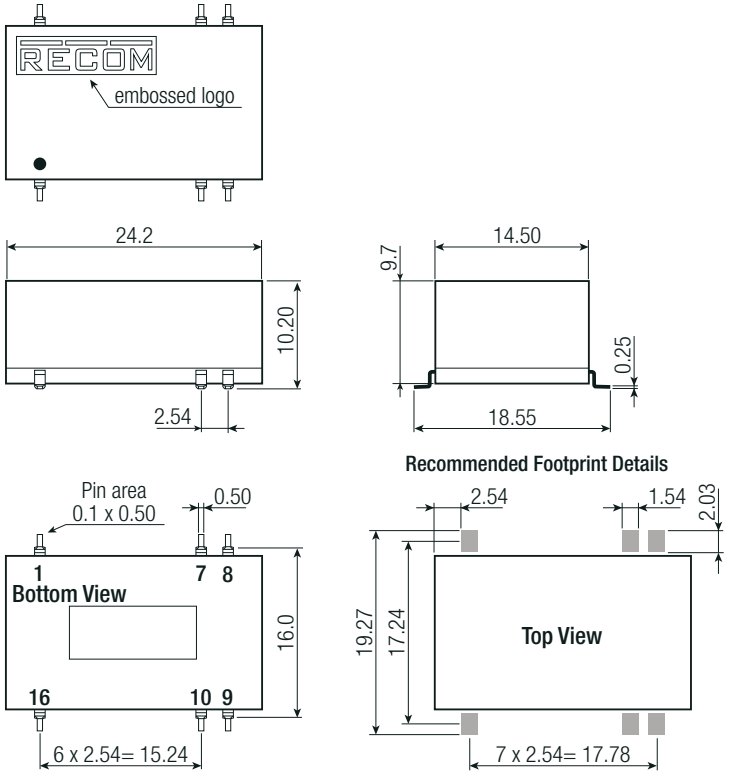
Tolerance: xx.x= ±0.5mm
xx.xx= ±0.35mm

continued on next page

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

Dimension Drawing SMD (mm)

SMD (/SMD)



Pinning information

Pin #	Single	Dual
1	-Vin	-Vin
7	NC	NC
8	NC	Com
9	+Vout	+Vout
10	-Vout	-Vout
16	+Vin	+Vin

Tolerance: xx.x=±0.5mm
xx.xx=±0.35mm

PACKAGING INFORMATION

Parameter	Type	Value
Packaging Dimension (LxWxH)	tube	530.0 x 21.0 x 18.0mm
Packaging Quantity	DIP16 and SMD Mini DIP16	20pcs 22pcs
Storage Temperature Range		-55°C to +125°C
Storage Humidity	non-condensing	95% RH max.