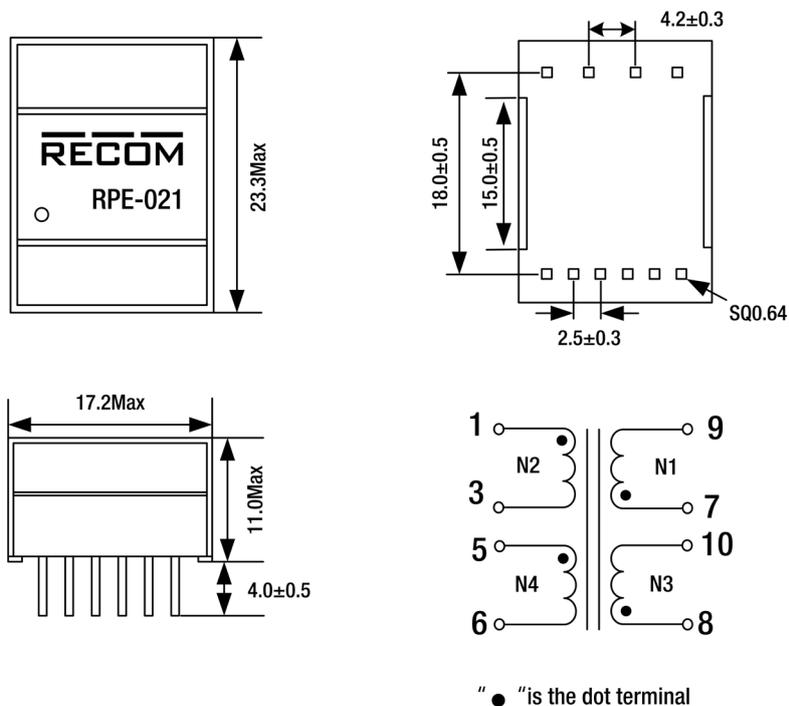


PRODUCT FEATURES

- THD Plugin Installation
- Isolation Voltage: 4300VAC/1minute
- Operating Temperature: -40~70°C
- Storage humidity: -40~125°C
- Product Volume (MAX): 23.3mm × 17.2mm × 11.0mm

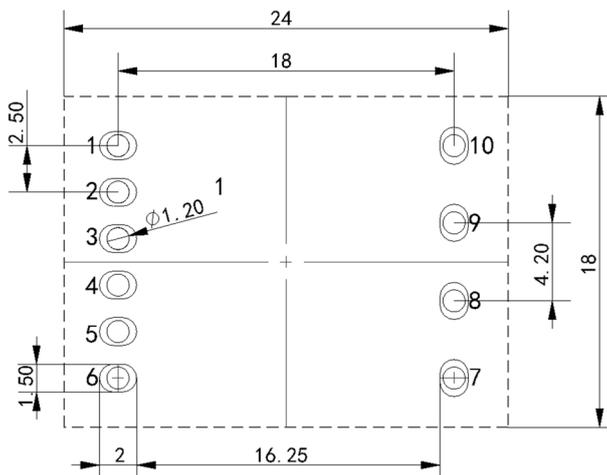
DIMENSIONS AND SCHEMATIC DIAGRAM [mm]



PRODUCT MARKING

Pin1	○
Marking	Company Logo
	Product Model

RECOMMENDED LAND PATTERN [mm]



ELECTRICAL PROPERTIES

Properties		Test Conditions	Value	Unit	Tol.
Inductance	L	N2/100kHz/0.1v	11	μH	Typ.
Turns Ratio	n	N1:N2:N3:N4	1:2.25:1:1.25		
DC Resistance 1	R _{DC1}	1-3	0.17	Ω	Max
DC Resistance 2	R _{DC2}	5-6	0.23	Ω	Max
DC Resistance 3	R _{DC3}	7-9	0.05	Ω	Max
DC Resistance 4	R _{DC4}	8-10	0.06	Ω	Max
Interwinding Capacitance	C _{ww}	PIN1-10/100kHz/0.1V/25°C	32	pF	Max
Leakage Inductance	L _S	N1/100kHz/0.1V all other terminals short	1.0	uH	Max
Insulation Test Voltage	V _T	N2,4 : N1,3/60s/1mA	4300	V(AC)	1min.

GENERAL INFORMATION

Operating Temperature	-40~125°C
Storage Conditions (in original packaging)	<40°C/<75%RH
Moisture Sensitivity Level (MSL)	1
Electrical Specifications @ 25°C unless otherwise noted	

MATERIAL CERTIFICATION

ITEM	UL NO
1 CASE	E150608
2 WIRE	E315265
3 VARNISH	E314793
4 BOBBIN	E150608
5 TAPE	E165111
6 GLUE	E218090, E475498

CERTIFICATION

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACH Approval	Conform or declared [(EC)1907/2006]
Halogen Free	Conform [EN 14582:2016]

TYPICAL APPLICATION

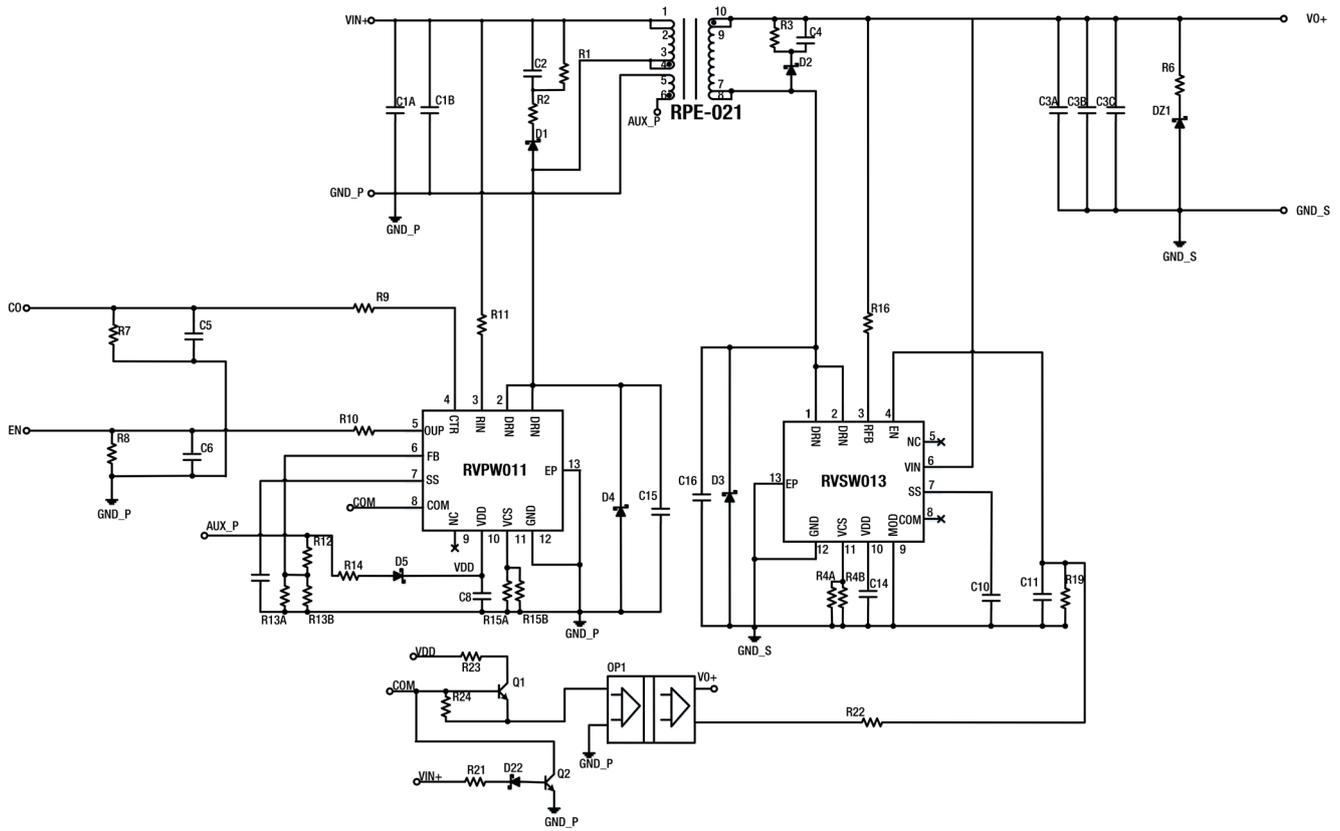
Input Voltage	V _{IN}	16-32	V(DC)
Output Voltage 1	V _{OUT1}	2.5-4	V(DC)
Output Current 1	I _{OUT1}	2000	mA
Switching Frequency	f _{switch}	350	kHz

Input: N2

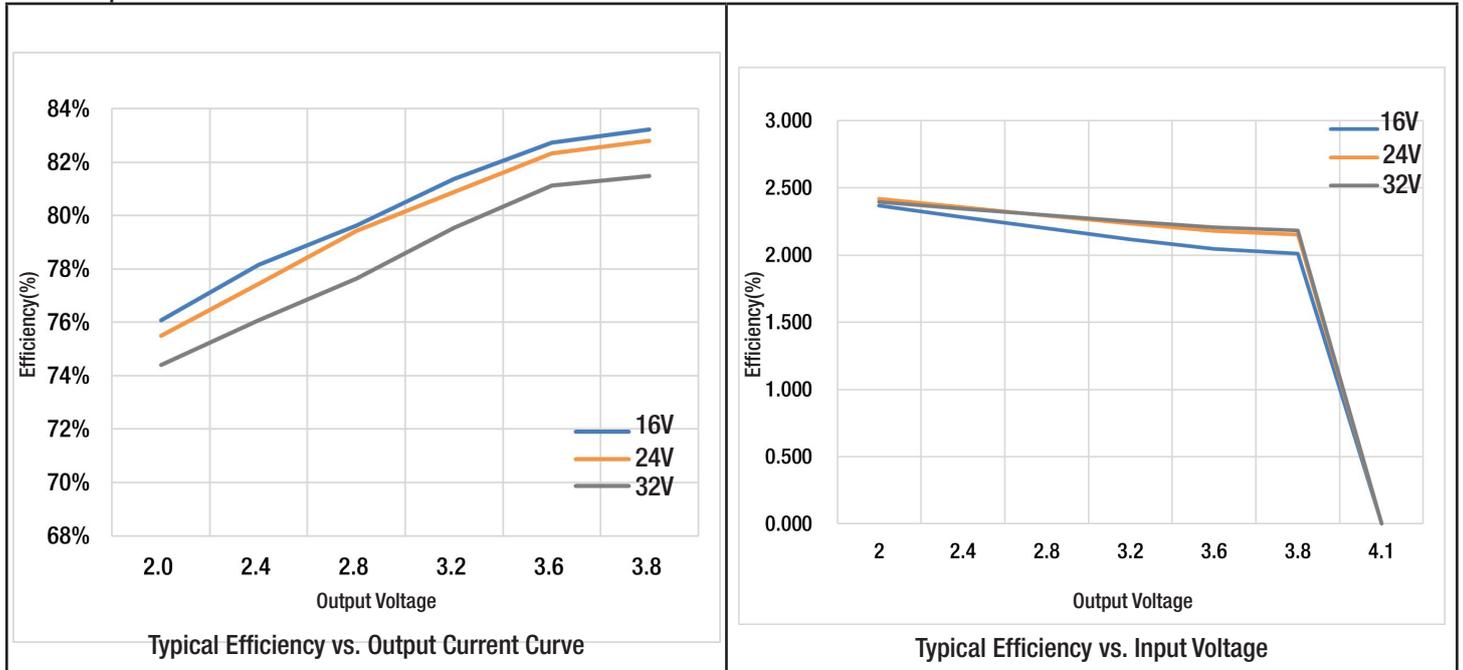
Output 1: N1/N3

Table and graph show a typical application. Values may vary by application.

REFERENCE CIRCUIT DIAGRAM

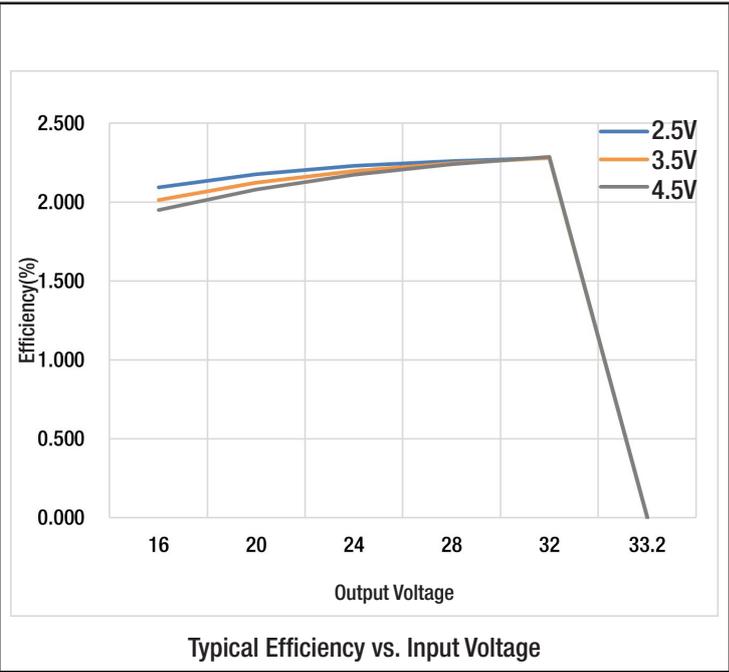
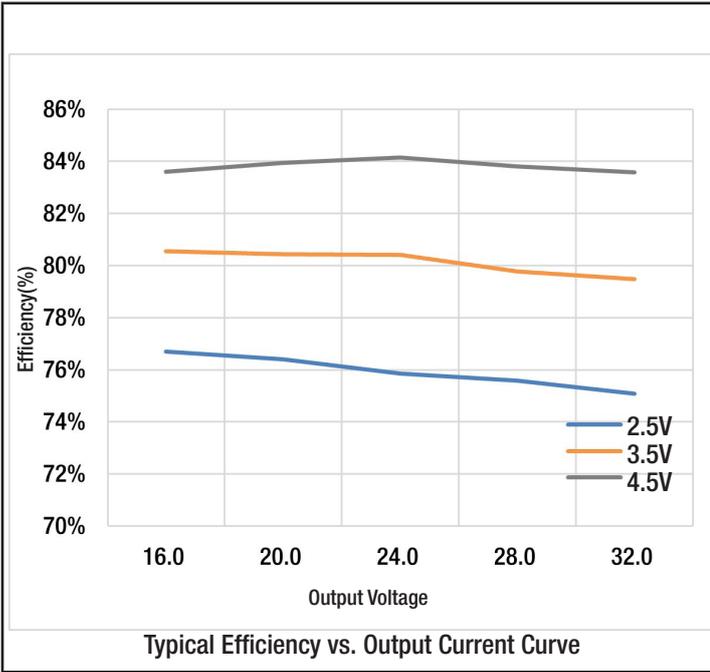


Typical Curve:
Forward operation

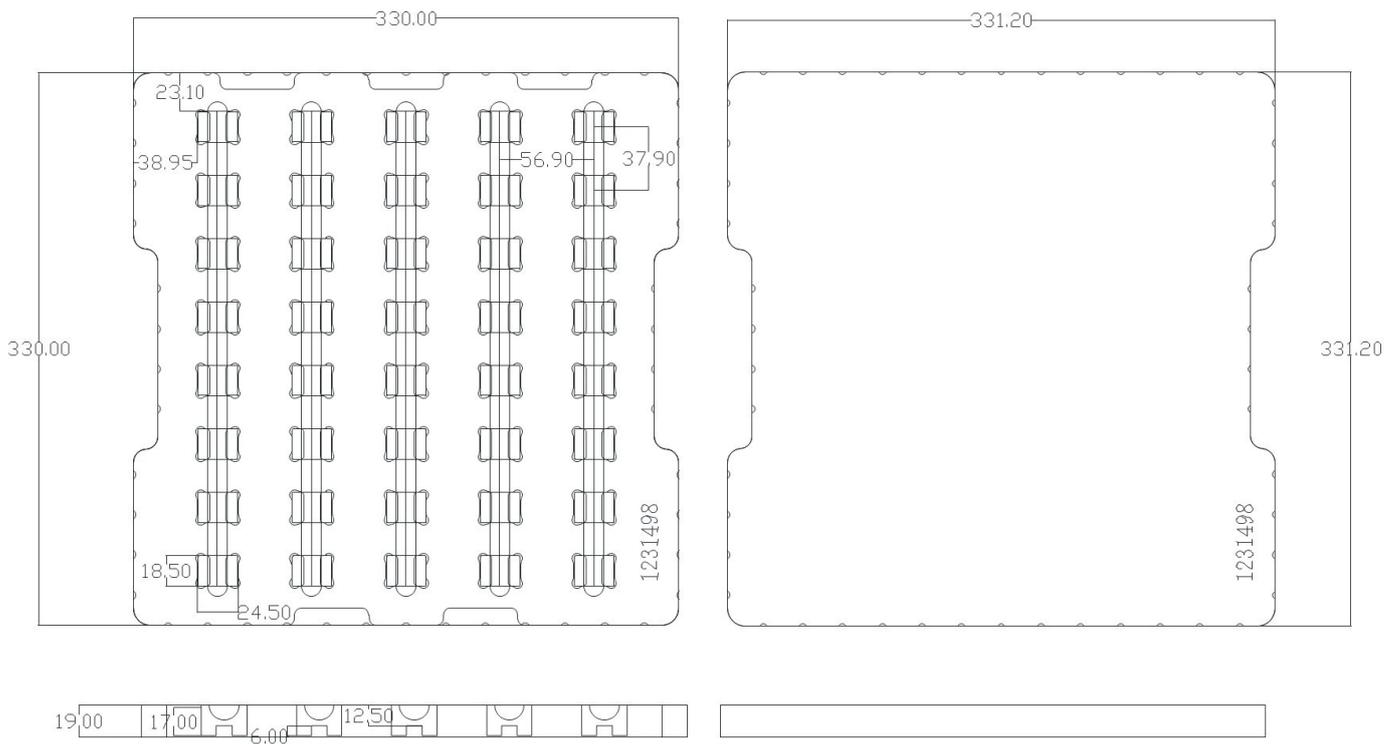




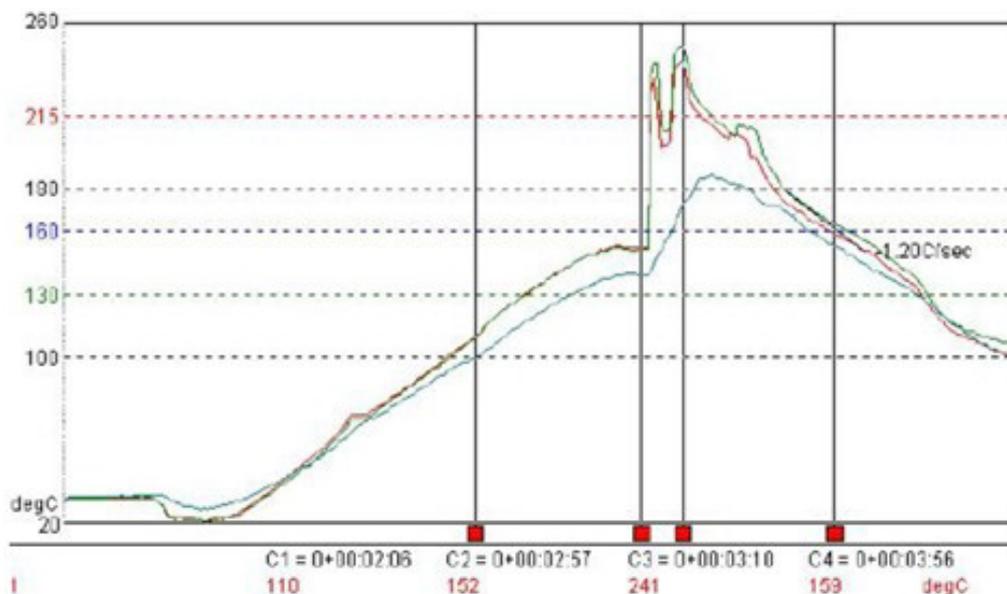
Reverse Work



PACKAGING SPECIFICATION - TAPE [mm]



CLASSIFICATION REFLOW PROFILE FOR WAVE SOLDERING COMPONENTS



Profile Feature	Value
Preheat Temperature Min	80°C
Preheat Temperature Max	160°C
Preheat Time t_s from $T_{s\ min}$ to $T_{s\ max}$	40-150 seconds
Slope of warming	1-3 Seconds
Constant temperature time	120°C-160°C
Temperature of lead free solder pot	255°C±5°C
Welding contact time	3-4 Seconds
Cooling rate (to prevent thermal stress cracking)	≤4 Seconds
Target temperature (ensure complete solidification of the weld)	Below 100°C
Total time from warm-up to complete cooling	2.5–5.0 Minutes.

Refer to IPC/J-STD-001

PACKAGE CLASSIFICATION REFLOW TEMPERATURE (T_r)

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly Package Thickness > 2.5 mm	250 °C	245 °C	245 °C

Refer to IPC/JEDEC J-STD-020F

ORDER INFORMATION

Order Code	Marking Code*	Weight (g/pcs)	Package Type	Quantity (pcs/Tray)
RPE-021-WB5S	RPE-021	6.443g	Tray	40pcs

*Marking Code

RPE021 — Product Code

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