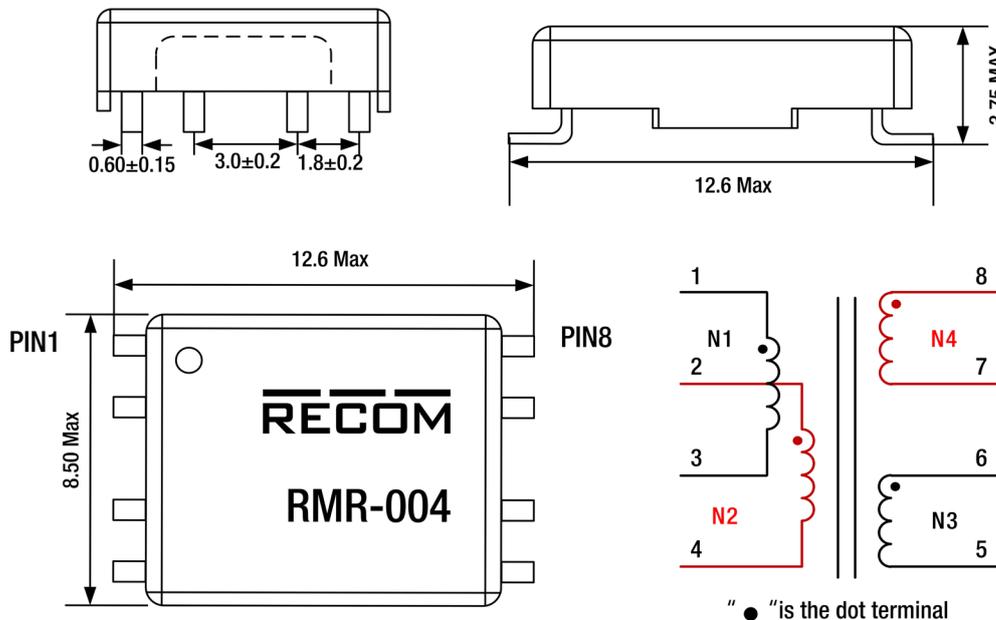


PRODUCT FEATURES

- Small-sized isolation transformer
- Isolation Voltage: 3000VDC/1minute
- SMD (Surface Mount Device) Mounting
- Reflow Soldering Temperature Peak Temperature $\leq 250^{\circ}\text{C}$ (10s)
- Recommended Reflow Soldering Times: No More Than 2 times
- Product Volume: 12.6mm x 8.5mm x 3.75mm (MAX)

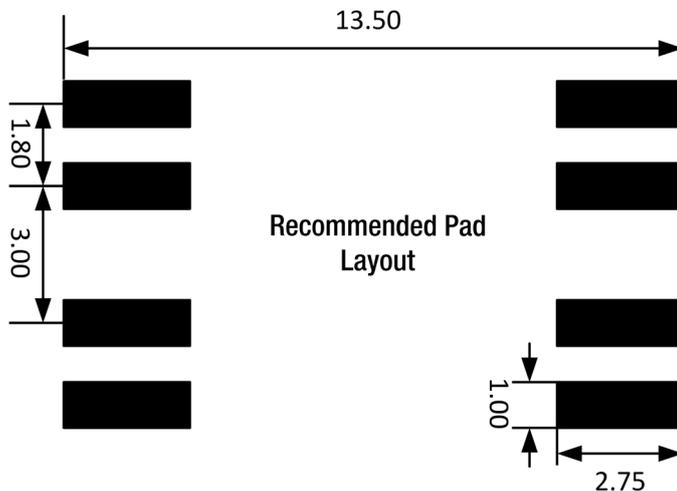
DIMENSIONS AND SCHEMATIC DIAGRAM [mm]



PRODUCT MARKING

Pin1	○
Marking	Company Logo
	Product Model

RECOMMENDED LAND PATTERN [mm]



ELECTRICAL PROPERTIES

Properties		Test Conditions	Value	Unit	Tol.
Inductance	L	N1/100kHz/0.1V	518.7	μH	min.
Turns Ratio	n	N1:N2:N3:N4	1:1:1.03:1.03		
DC Resistance 1	R _{DC1}	N1:N2 /25°C	0.50	Ω	Max
DC Resistance 2	R _{DC2}	N3:N4 /25°C	0.54	Ω	Max
Voltage-μSecond	∫ Udt	N1/ bipolar waveform	34.31	Vμs	
Interwinding Capacitance	C _{ww}	PIN1-8/100kHz/ 0.1V/25°C	25	pF	Max
Leakage Inductance	L _s	N1/100kHz/0.1V, all other terminals short	0.5	uH	Max
Insulation Test Voltage	V _T	N1,2 : N3,4/60s/1mA	3000	V(DC)	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	E253843
3	VARNISH	E314793

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

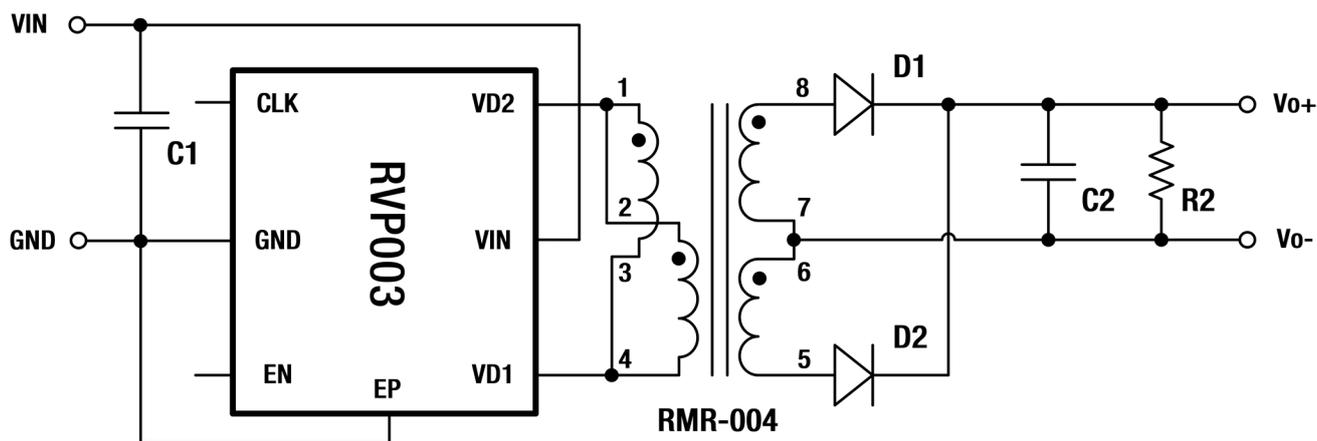
Input Voltage	V _{IN}	12	V(DC)
Output Voltage 1	V _{OUT1}	12	V(DC)
Output Current 1	I _{OUT1}	83	mA
Switching Frequency	f _{switch}	250	kHz

Input : N1 / N2

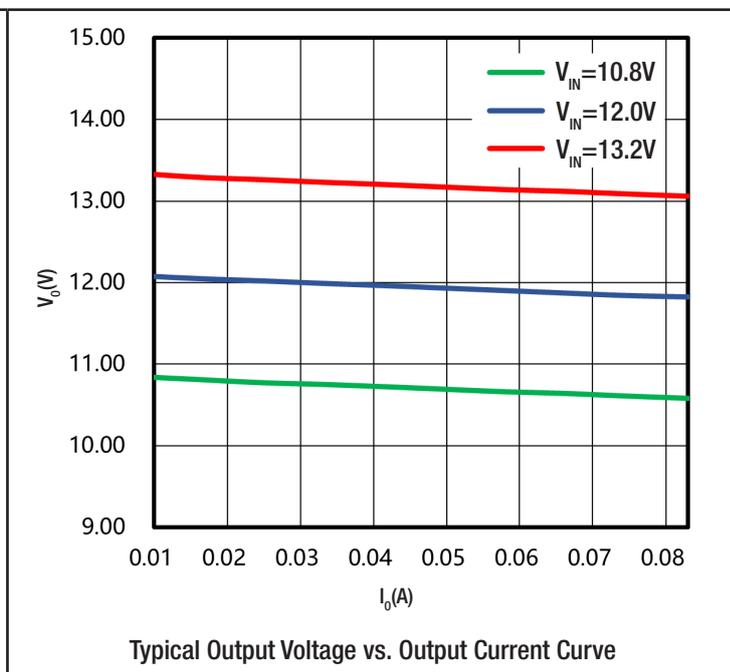
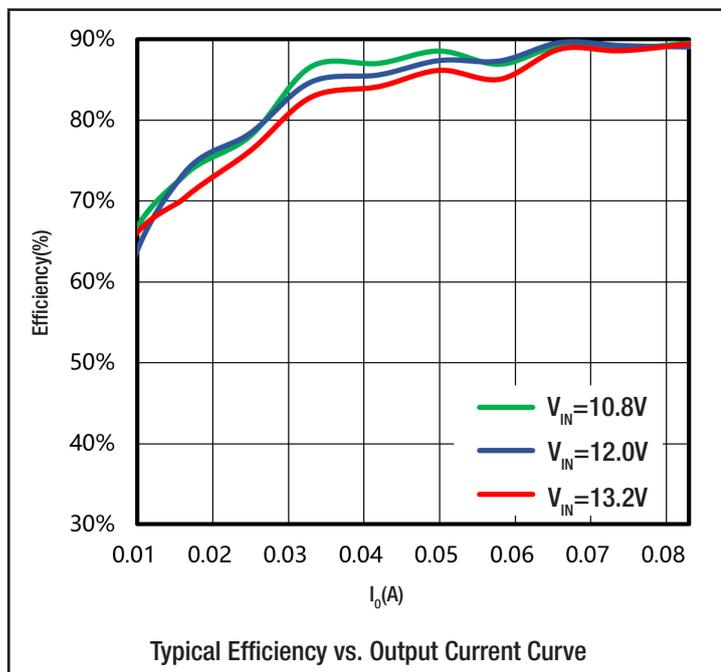
Output 1: N3 / N4

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

REFERENCE CIRCUIT DIAGRAM

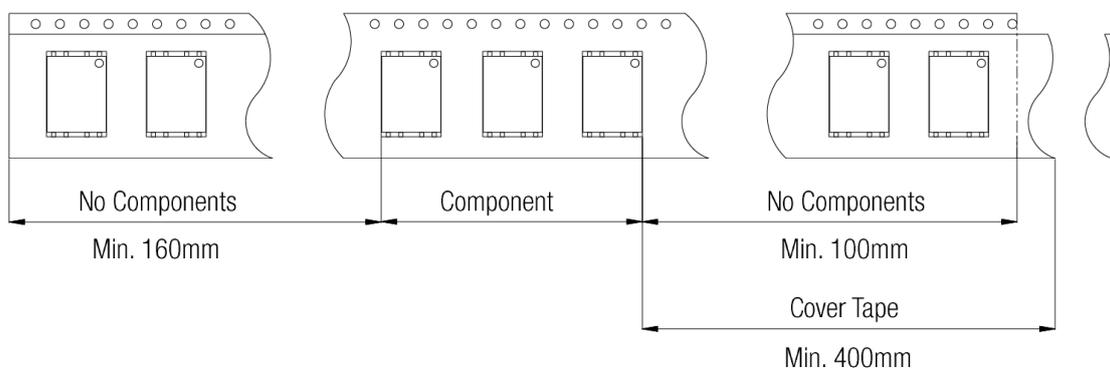
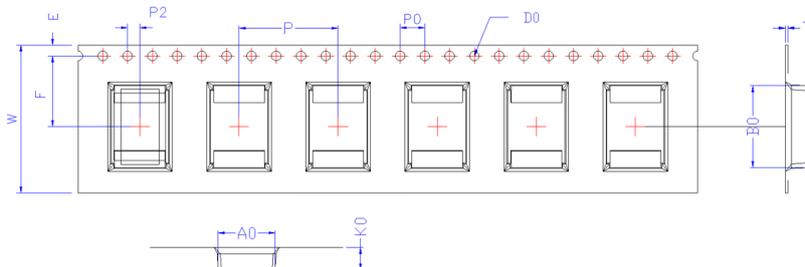


Typical Curve:

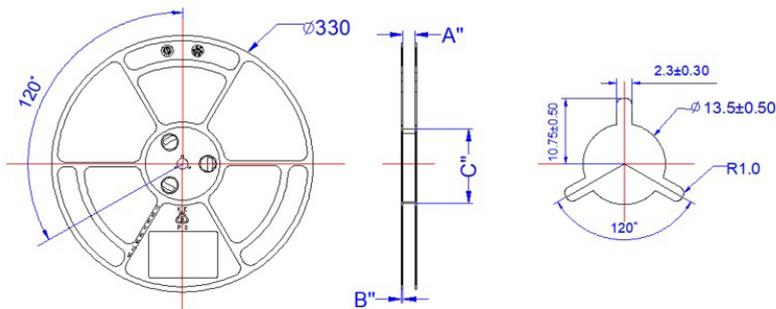


PACKAGING SPECIFICATION - TAPE [mm]

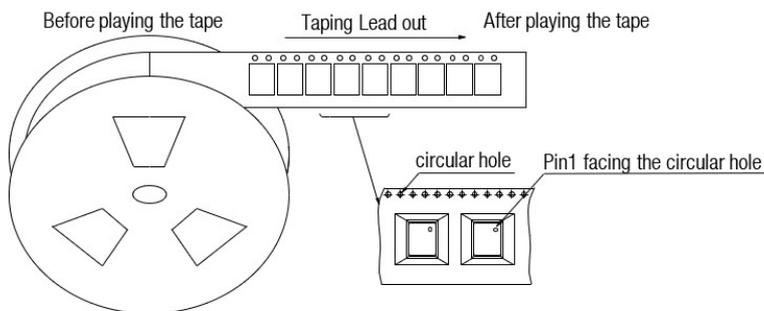
ITRM	W	A0	B0	K0	K1	P	F	E	D0	D1	P0	P2	T
DIM	24.00	8.90	12.90	3.70	--	16.00	11.50	1.75	1.50	--	4.00	2.00	0.40
TOLE	+0.30 -0.30	+0.15 -0.15	+0.15 -0.15	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.00	+0.10 -0.00	+0.10 -0.10	+0.15 -0.15	+0.05 -0.05



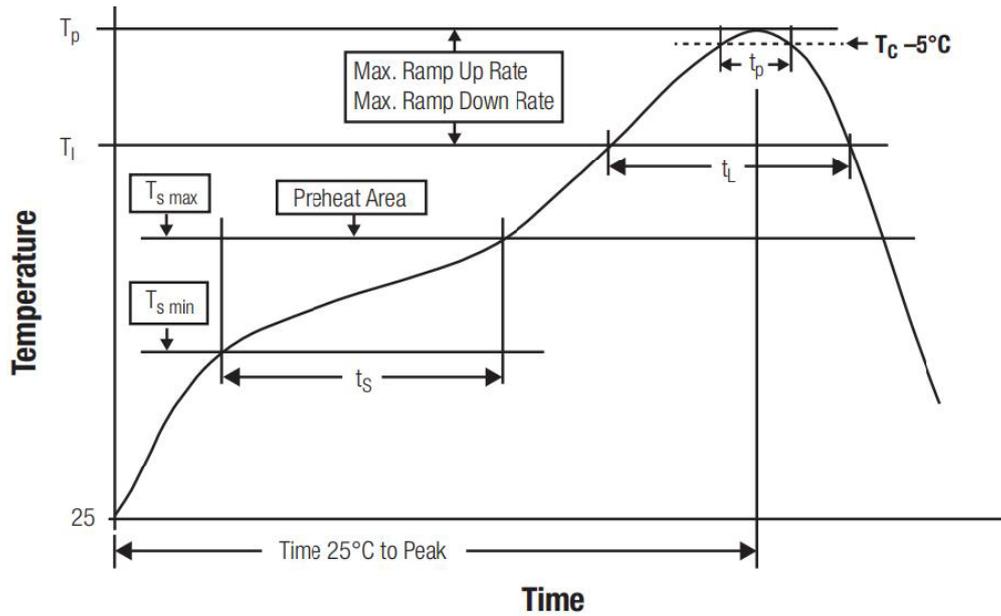
Reel [mm]



		✓			
SPEC	16	24	32	44	56
DIM A'' ± 0.5	16.5	24.5	32.5	44.5	56.5
DIM B'' ± 0.3	2.10	2.10	2.10	2.10	2.10
DIM C'' ± 0.5	100	100	100	100	100



CLASSIFICATION REFLOW PROFILE FOR SMT COMPONENTS



Profile Feature		Value
Preheat Temperature Min	$T_{s\ min}$	150°C
Preheat Temperature Max	$T_{s\ max}$	200°C
Preheat Time t_s from $T_{s\ min}$ to $T_{s\ max}$	t_s	100 seconds
Ramp-up Rate (T_L to T_p)		3°C/second max.
Liquidous Temperature	T_L	217°C
Time t_L maintained above T_L	t_L	100 seconds
Peak package body temperature	T_p	$T_p \leq T_c$, see Table below
Time within 5°C of actual peak temperature	t_p	30 seconds
Ramp-down Rate (TP to TL)		6°C/second max.
Time 25°C to peak temperature		5 minutes max.

Refer to IPC/JEDEC J-STD-020F

PACKAGE CLASSIFICATION REFLOW TEMPERATURE (T_p)

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/Reel)
RMR-004-CAAS-R	RMR-004	0.51g	Tape & Reel	1000pcs

*Marking Code

RMR004—— Product Code

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