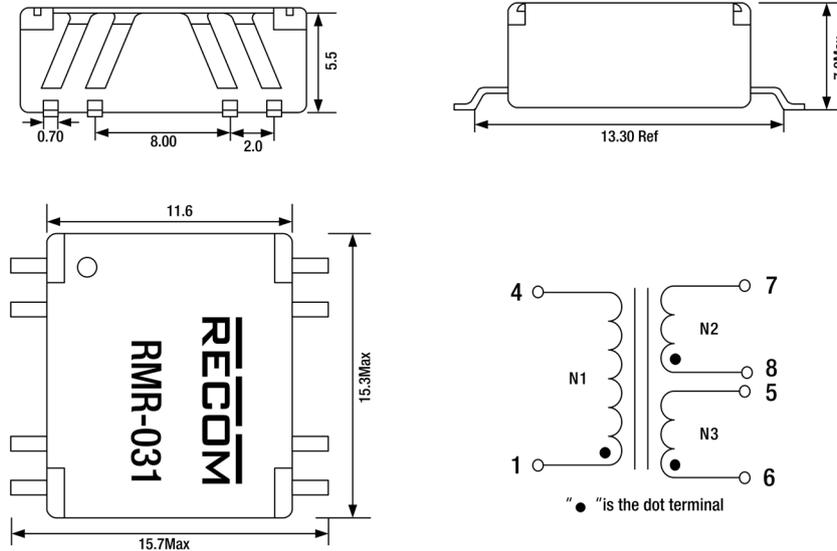


PRODUCT FEATURES

- Small-sized Isolation Transformer
- Isolation Voltage: 5000VAC/1 minute
- 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: 15.7mm*15.3mm*7.0mm (Max)

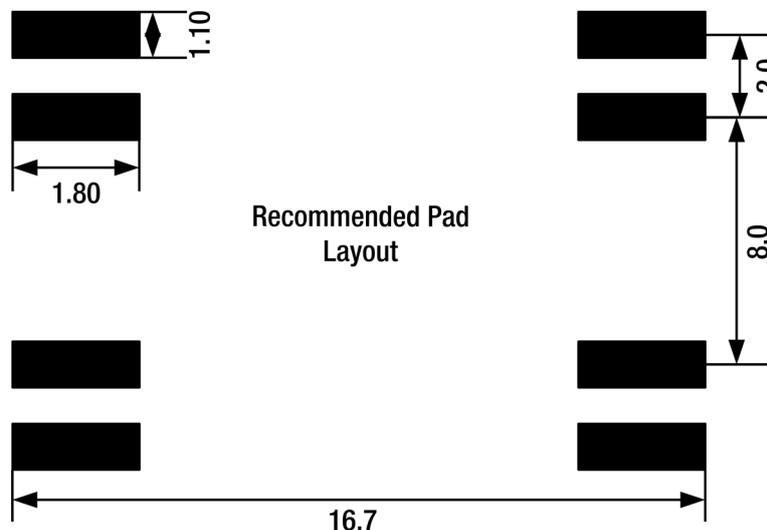
DIMENSIONS AND SCHEMATIC DIAGRAM: [MM]



PRODUCT MARKING

Pin 1	○
Marking	Company Logo
	Product Model

RECOMMENDED LAND PATTERN: [MM]



ELECTRICAL PROPERTIES

PROPERTIES		TEST CONDITIONS	VALUE	UNIT	TOL.
Inductance	L	N1 / 10kHz / 0.1V	381.55	μH	min.
Turns Ratio	n	N1:N2:N3	1:0.67:0.42		
DC Resistance 1	R _{DC1}	N1 / 25°C	0.30	Ω	Max
DC Resistance 2	R _{DC2}	N2 / 25°C	0.22	Ω	Max
DC Resistance 3	R _{DC3}	N3 / 25°C	0.16	Ω	Max
Voltage-μSecond	$\int U_{dt}$	N1/ bipolar waveform	83.95	Vμs	
Interwinding Capacitance	C _{ww}	PIN1-8 / 100kHz / 0.1V / 25°C	10	pF	Max
Leakage Inductance	L _s	N1 / 100kHz / 0.1V all other terminals short	18	uH	Max
Insulation Test Voltage	V _T	N1: N2, 3 / 60s / 1mA	5000	VAC	1 min.

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
4	GLUE E304477

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}	24	V(DC)
Output Voltage 1	V _{OUT1}	+15	V(DC)
Output Voltage 2	V _{OUT2}	-9	V(DC)
Output Current	I _{OUT}	100	mA
Switching Frequency	f _{switch}	250	kHz

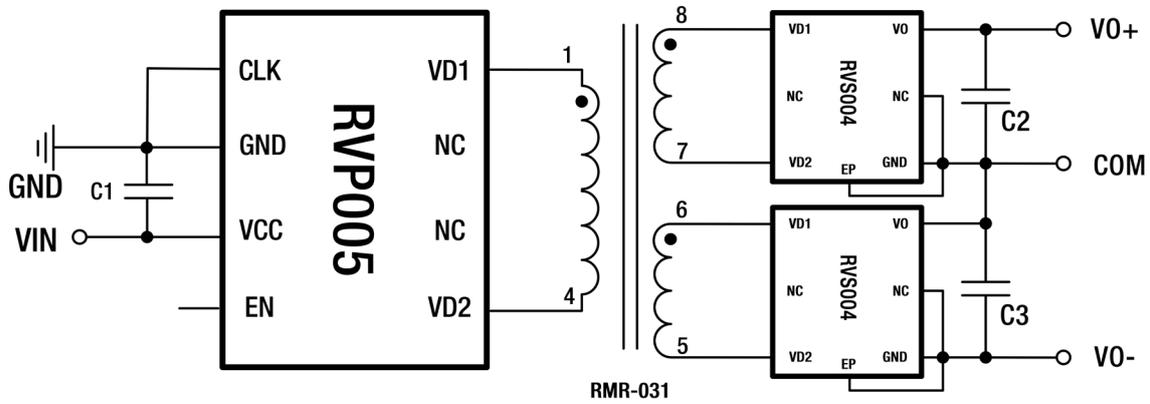
Input: N1

Output 1: N2

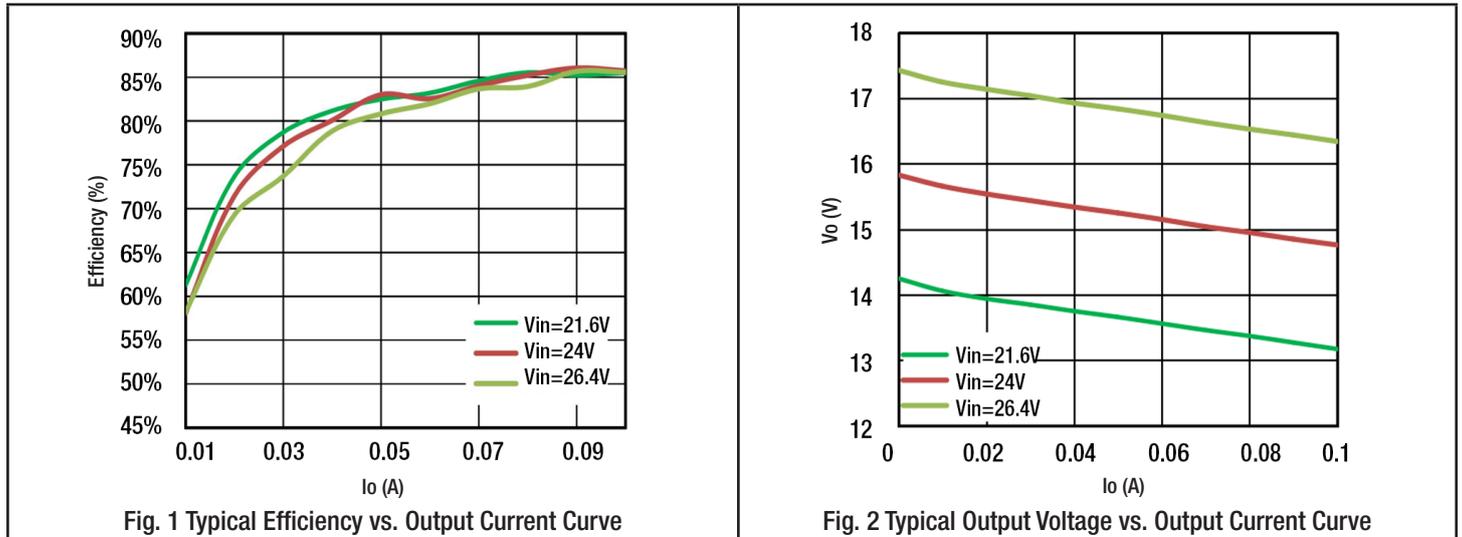
Output 2: N3

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

REFERENCE CIRCUIT DIAGRAM

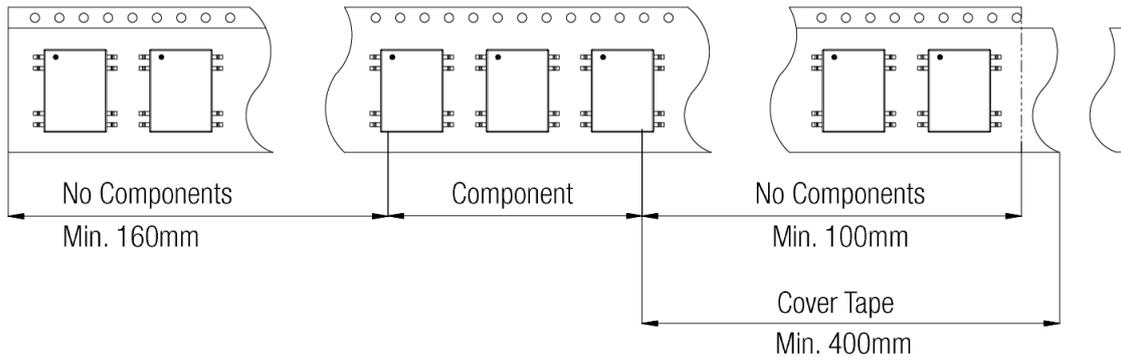
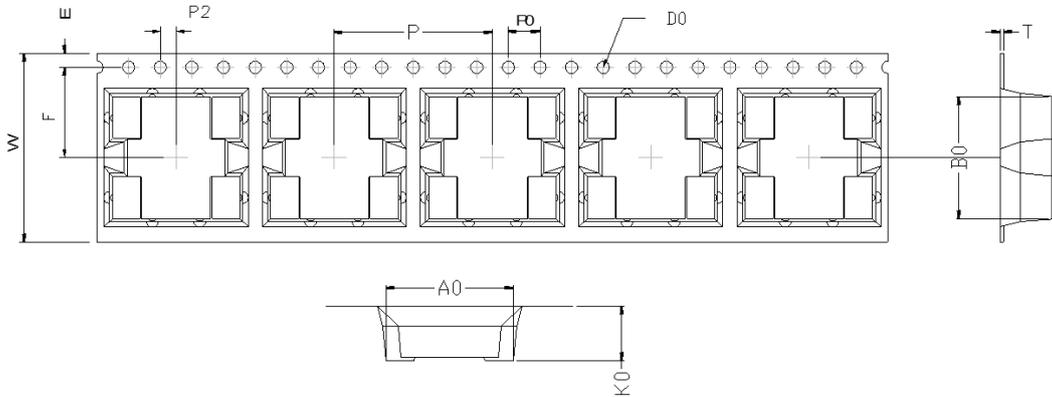


Typical Curve

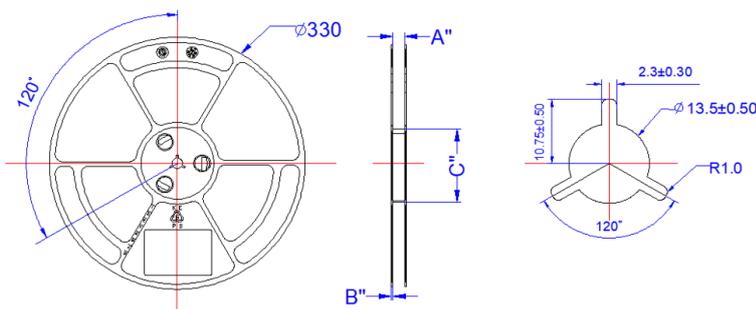


PACKAGING SPECIFICATION - TAPE: [MM]

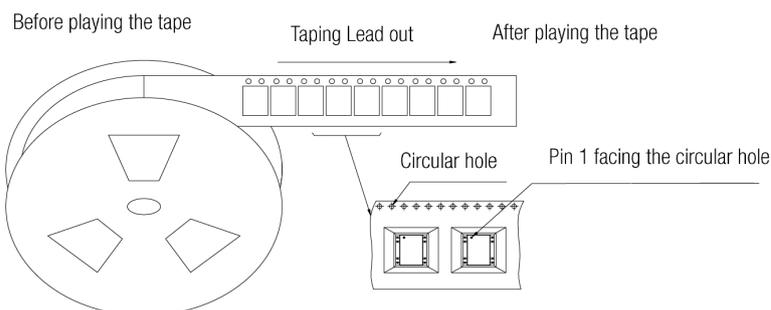
ITRM	W	A0	B0	K0	K1	P	F	E	D0	D1	P0	P2	T
DIM	24.00	15.70	15.25	7.15	--	20.00	11.50	1.75	1.50	--	4.00	2.00	0.40
TOLE	+0.30 -0.30	+0.15 -0.15	+0.15 -0.15	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.00	+0.10 -0.00	+0.10 -0.10	+0.15 -0.15	+0.05 -0.05



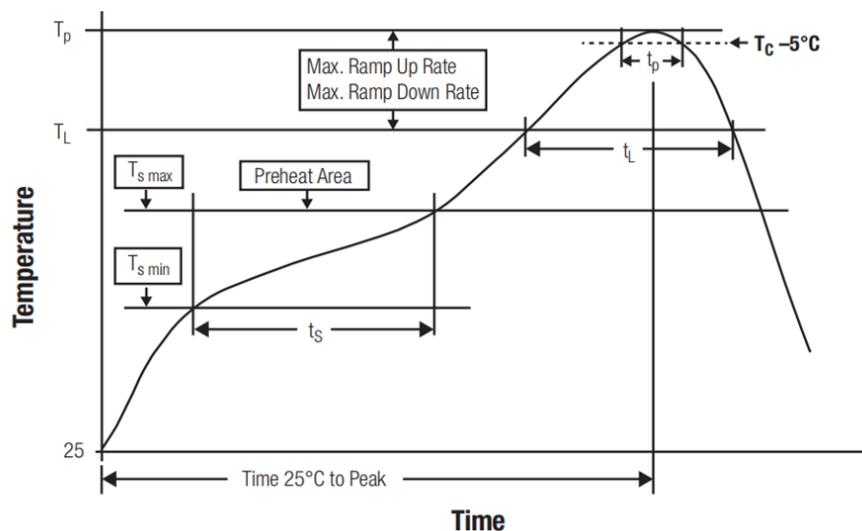
Reel: [mm]



		✓			
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	$T_{s \text{ min}}$	150°C
Preheat Temperature Max	$T_{s \text{ max}}$	200°C
Preheat Time t_s from $T_{s \text{ min}}$ to $T_{s \text{ max}}$	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 (T_p to T_L)		6°C/ second max.
Time 25°C to peak temperature		5 minutes max.

Refer to IPC/ JEDEC J-STD-020F

PACKAGE CLASSIFICATION REFLOW TEMPERATURE (TC)

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-031-IBCE-R	RMR-031	1.88g	Tape & Reel	400pcs

*Marking Code

RMR031—— Product Code

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