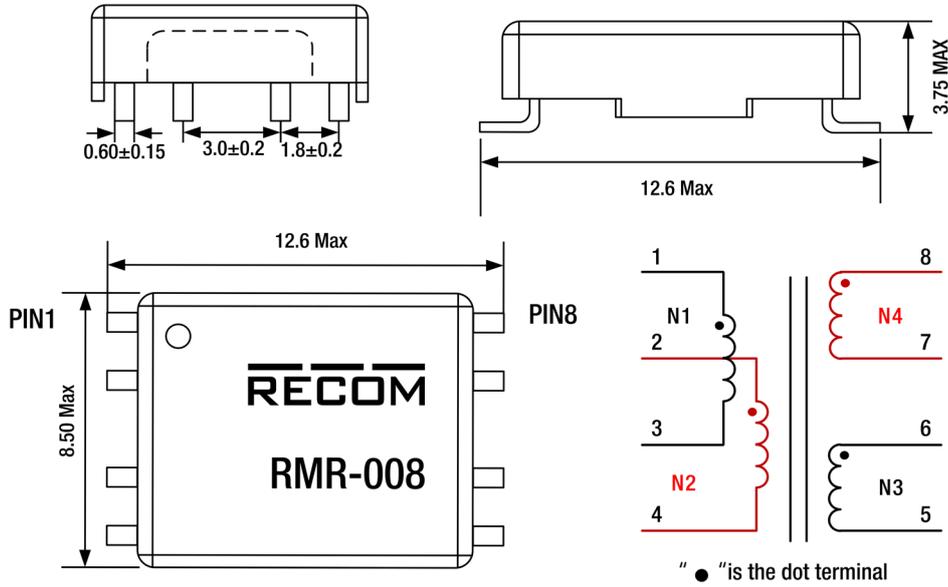


PRODUCT FEATURES

- 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*8.5mm*3.75mm (Max)

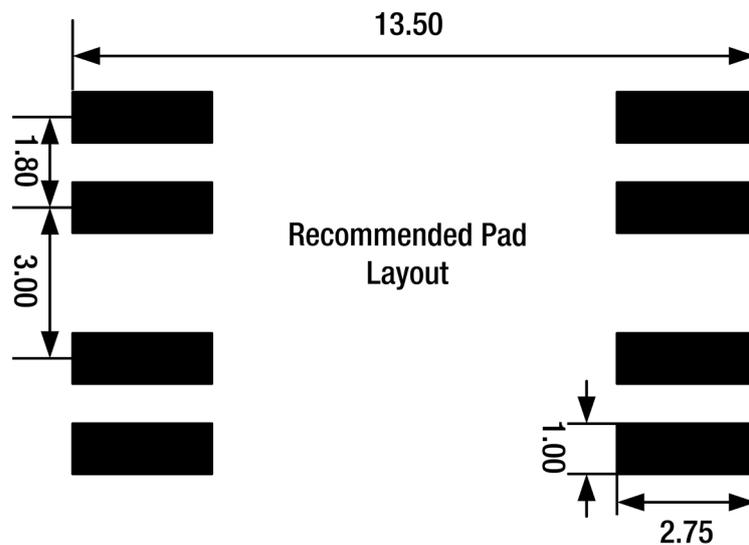
DIMENSIONS AND SCHEMATIC DIAGRAM: [MM]



PRODUCT MARKING

Pin 1	○
Marking	Company Logo
	Product Model

RECOMMENDED LAND PATTERN: [MM]



ELECTRICAL PROPERTIES

PROPERTIES		TEST CONDITIONS	VALUE	UNIT	TOL.
Inductance	L	N1 / 100kHz / 0.1V	158	μH	min.
Turns Ratio	n	N1:N2:N3:N4	1:1:1.125:1.125		
DC Resistance 1	R _{DC1}	N1:N2 / 25°C	0.18	Ω	Max
DC Resistance 2	R _{DC2}	N3:N4 / 25°C	0.24	Ω	Max
Voltage-μSecond	$\int U_{dt}$	N1/ bipolar waveform	19	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	0.25	uH	Max
Insulation Test Voltage	V _T	N1,2 : N3,4 / 60s / 1mA	3000	VDC	1minute

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

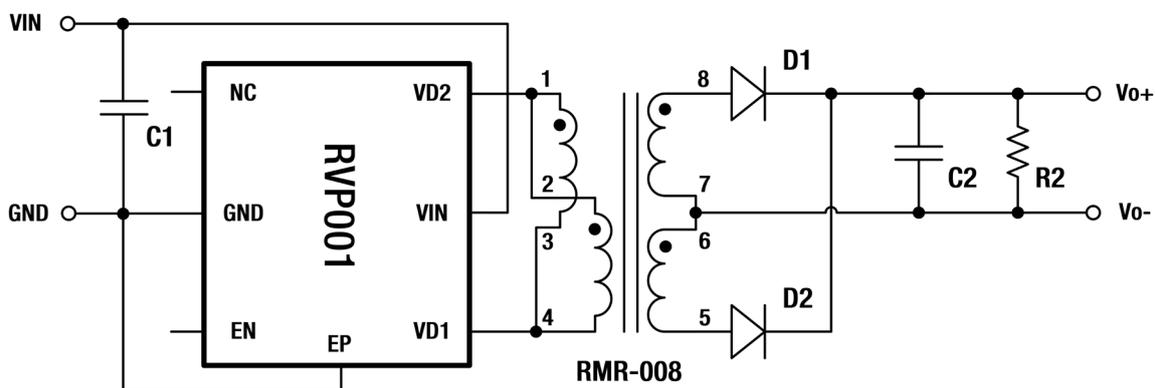
Input Voltage	V _{IN}	5	V(DC)
Output Voltage 1	V _{OUT1}	5	V(DC)
Output Current 1	I _{OUT1}	200	mA
Switching Frequency	f _{switch}	340	kHz

Input: N1 / N2

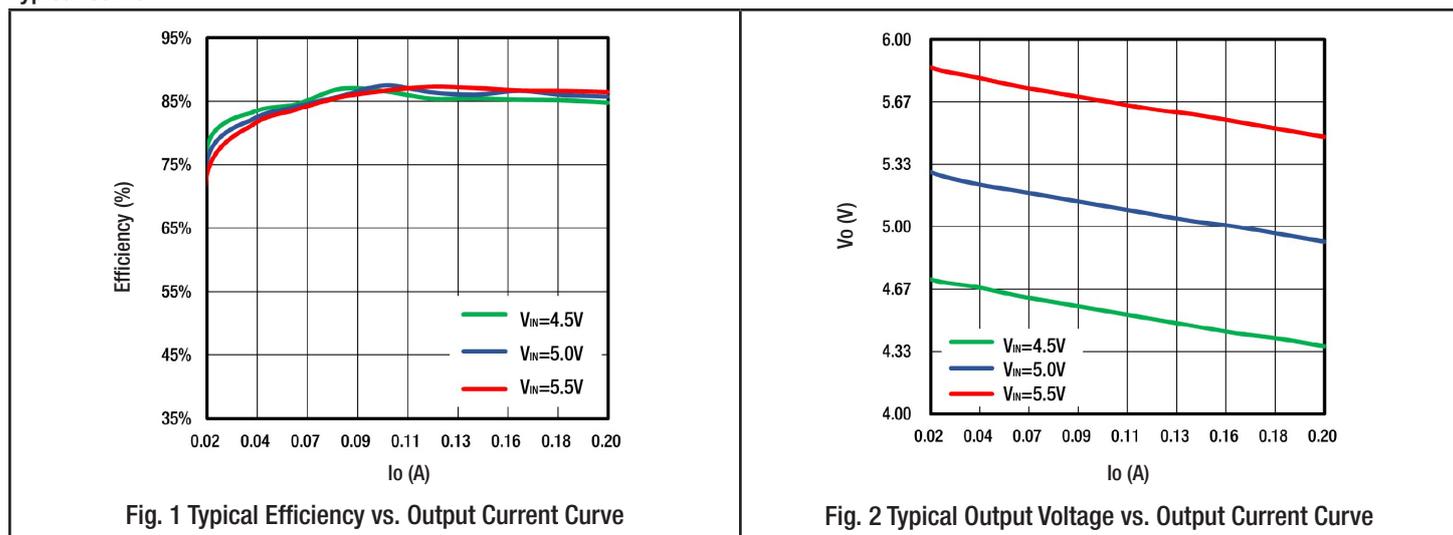
Output 1: N3 / N4

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

REFERENCE CIRCUIT DIAGRAM

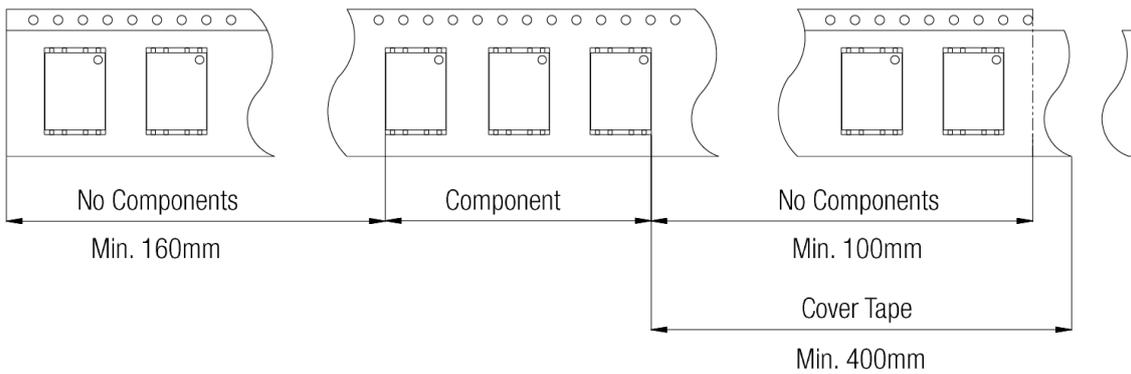
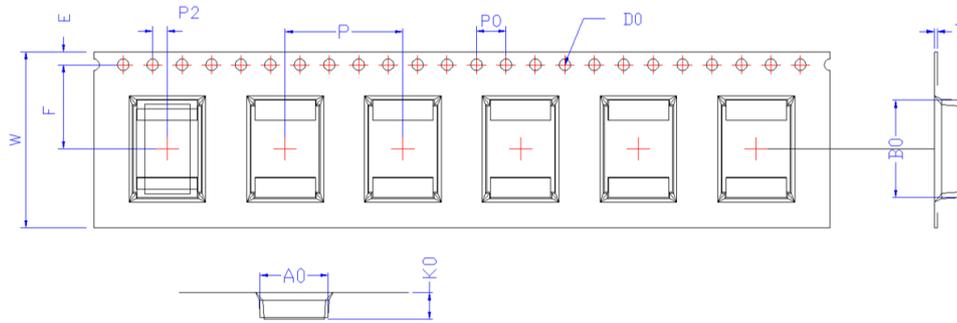


Typical Curve

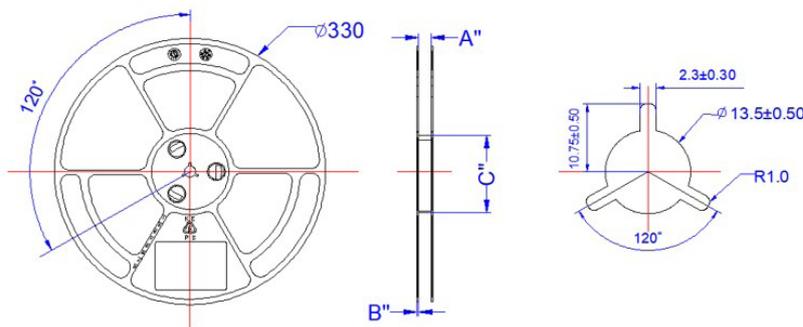


PACKAGING SPECIFICATION - TAPE: [MM]

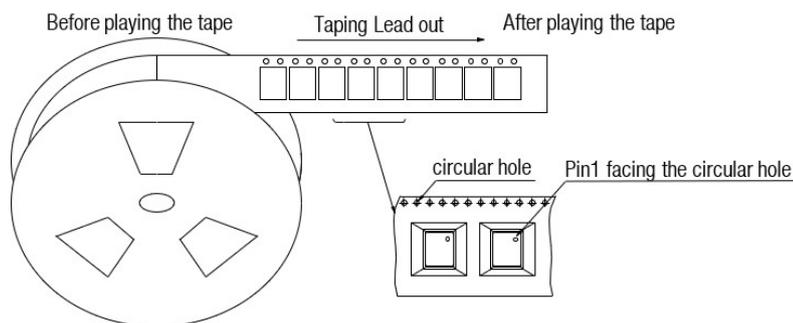
ITRM	W	A0	B0	K0	K1	P	F	E	D0	D1	P0	P2	T
DIM	24.00	8.90	12.90	3.70	--	16.00	11.50	1.75	1.50	--	4.00	2.00	0.40
TOLE	+0.30 -0.30	+0.15 -0.15	+0.15 -0.15	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.00	+0.10 -0.00	+0.10 -0.10	+0.15 -0.15	+0.05 -0.05



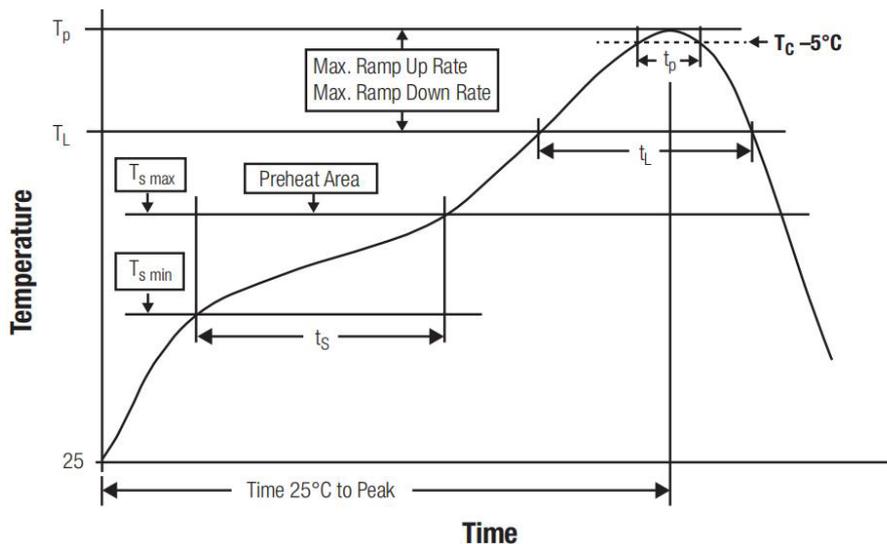
Reel: [mm]



		✓			
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	$T_{s \text{ min}}$	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-008-C55S-R	RMR-008	0.45g	Tape & Reel	1000pcs

*Marking Code

RMR008—— Product Code

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