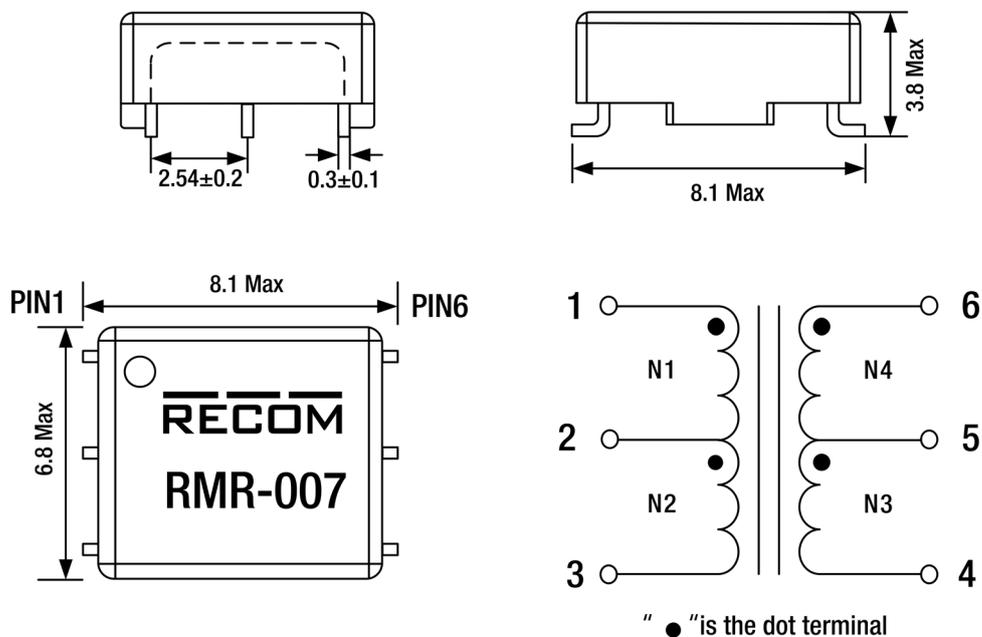


### PRODUCT FEATURES

- Small-Sized Isolation Transformer
- Isolation Voltage: 1500VDC/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: 8.1mm x 6.8mm x 3.8mm (MAX)

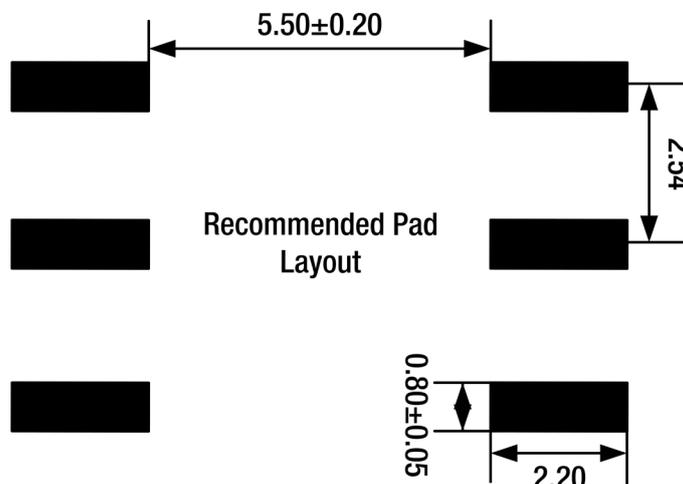
### DIMENSIONS AND SCHEMATIC DIAGRAM [mm]



### 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	82.55	μH	min.
Turns Ratio	n	N1:N2:N3:N4	1:1:1.14:1.14		
DC Resistance 1	R <sub>DC1</sub>	N1:N2 /25°C	0.22	Ω	Max
DC Resistance 2	R <sub>DC2</sub>	N3:N4 /25°C	0.25	Ω	Max
Voltage-μSecond	∫ Udt	N1/ bipolar waveform	8.49	Vμs	
Interwinding Capacitance	C <sub>VWV</sub>	PIN1-6/100kHz/ 0.1V/25°C	25	pF	Max
Leakage Inductance	L <sub>S</sub>	N1/100kHz/0.1V, all other terminals short	0.5	uH	Max
Insulation Test Voltage	V <sub>T</sub>	N1,2 : N3,4/60s/1mA	1500	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**

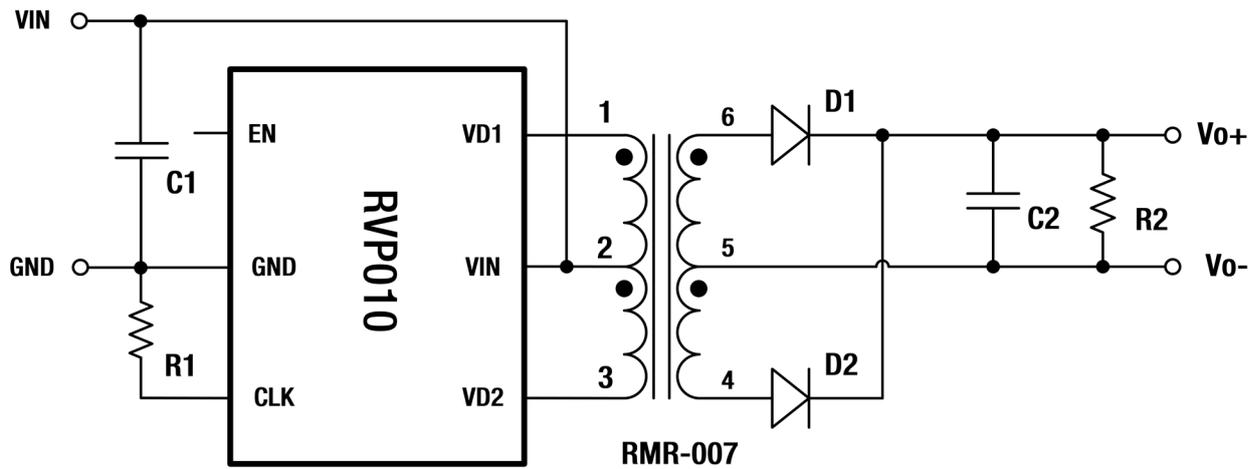
Input Voltage	V <sub>IN</sub>	5	V(DC)
Output Voltage 1	V <sub>OUT1</sub>	5	V(DC)
Output Current 1	I <sub>OUT1</sub>	400	mA
Switching Frequency	f <sub>switch</sub>	390	kHz

Input : N1 / N2

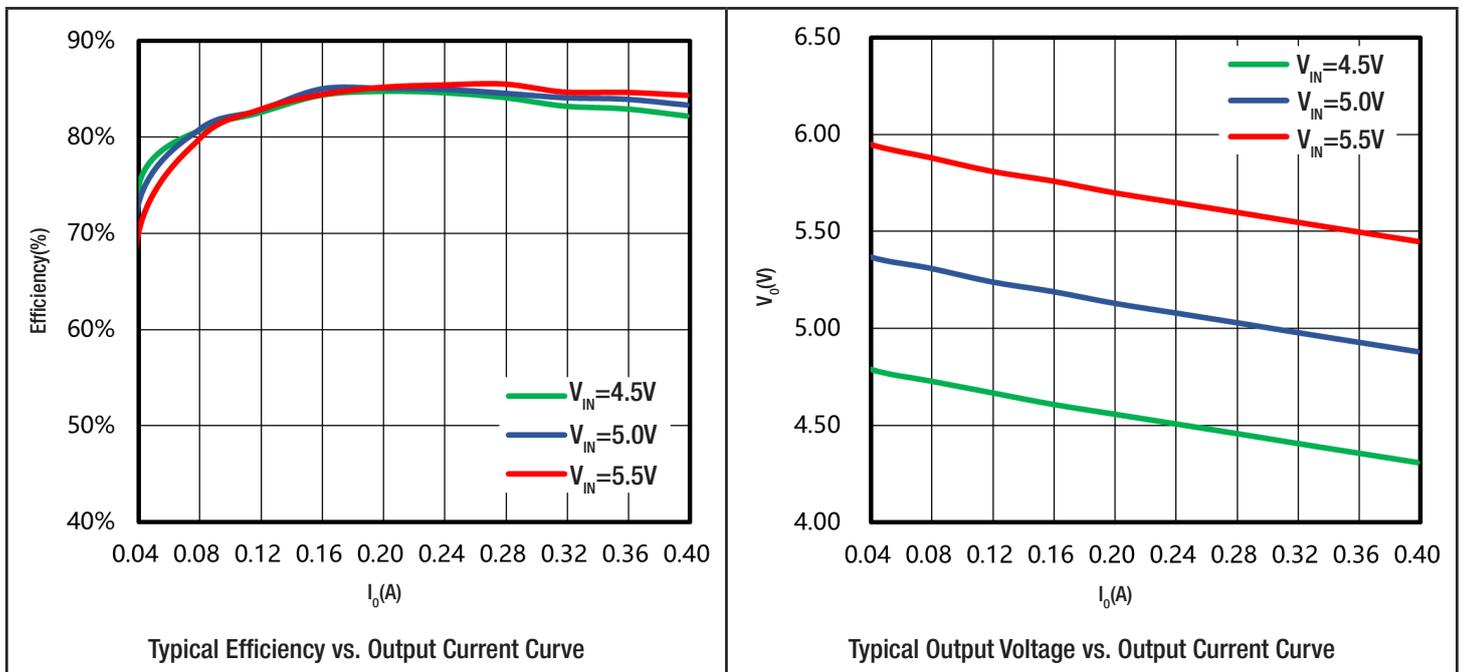
Output 1: N3 / N4

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

REFERENCE CIRCUIT DIAGRAM

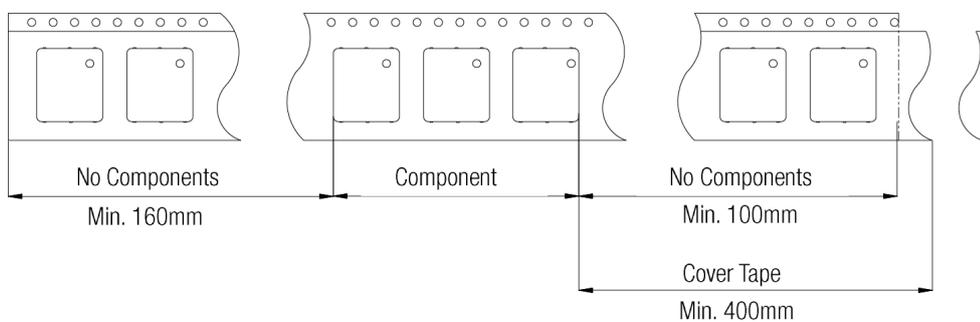
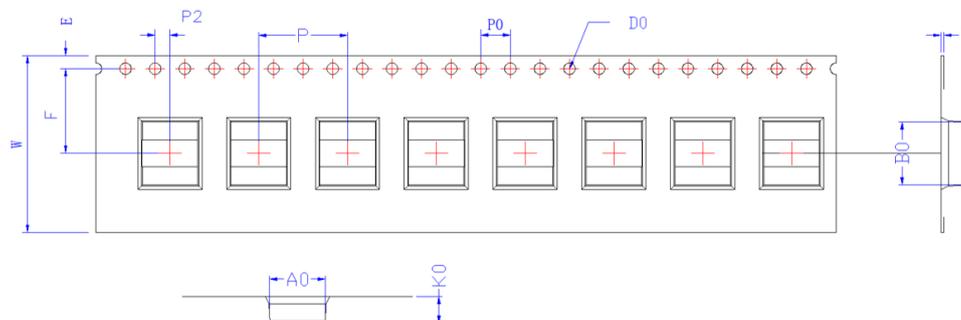


Typical Curve:

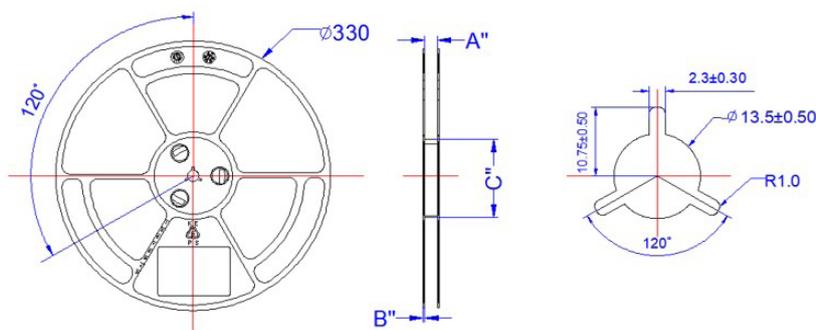


**PACKAGING SPECIFICATION - TAPE [mm]**

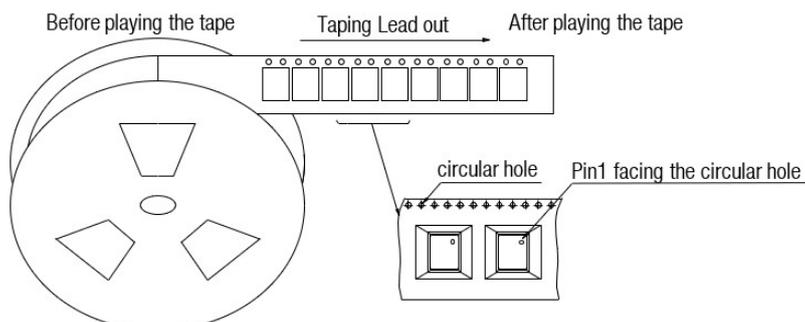
ITRM	W	A0	B0	K0	K1	P	F	E	D0	D1	P0	P2	T
DIM	24.00	7.10	8.20	3.75	--	12.00	11.50	1.75	1.50	--	4.00	2.00	0.40
TOLE	+0.30 -0.30	+0.15 -0.15	+0.15 -0.15	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.00	+0.10 -0.00	+0.10 -0.10	+0.15 -0.15	+0.05 -0.05



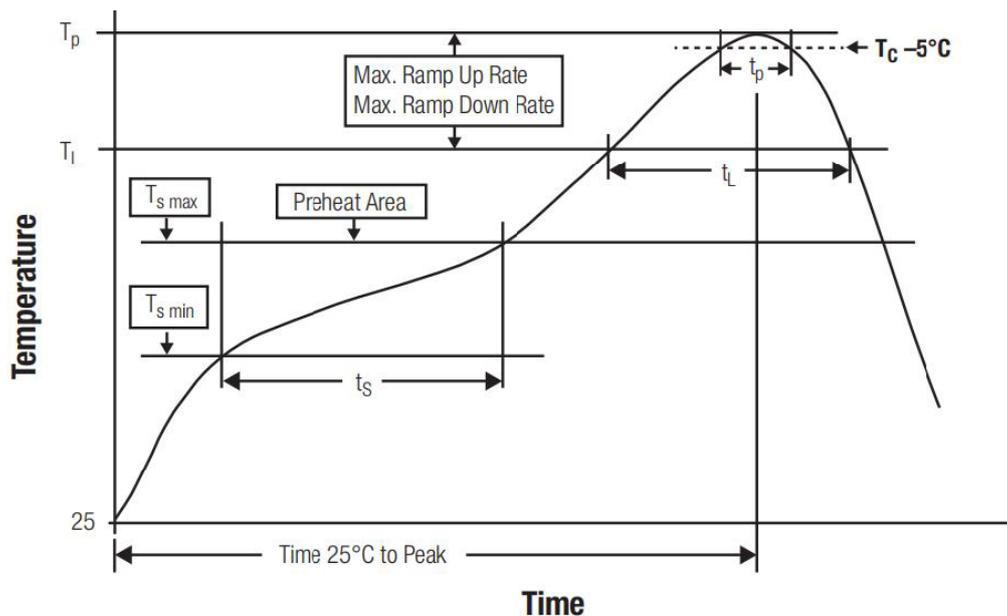
**Reel [mm]**



		✓			
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 ( $T_p$ 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 ( $T_p$ )**

Properties	Volume mm <sup>3</sup> <350	Volume mm <sup>3</sup> 350-2000	Volume mm <sup>3</sup> >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-007-A55S-R	RMR-007	0.23g	Tape & Reel	1500pcs

\*Marking Code

RMR007—— Product Code

The product information and specifications may be subject to changes even without prior written notice. The product has been designed for various applications; its suitability lies in the responsibility of each customer. The products are not authorized for use in safety-critical applications without RECOM's explicit written consent. A safety-critical application is an application where a failure may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The applicant shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.