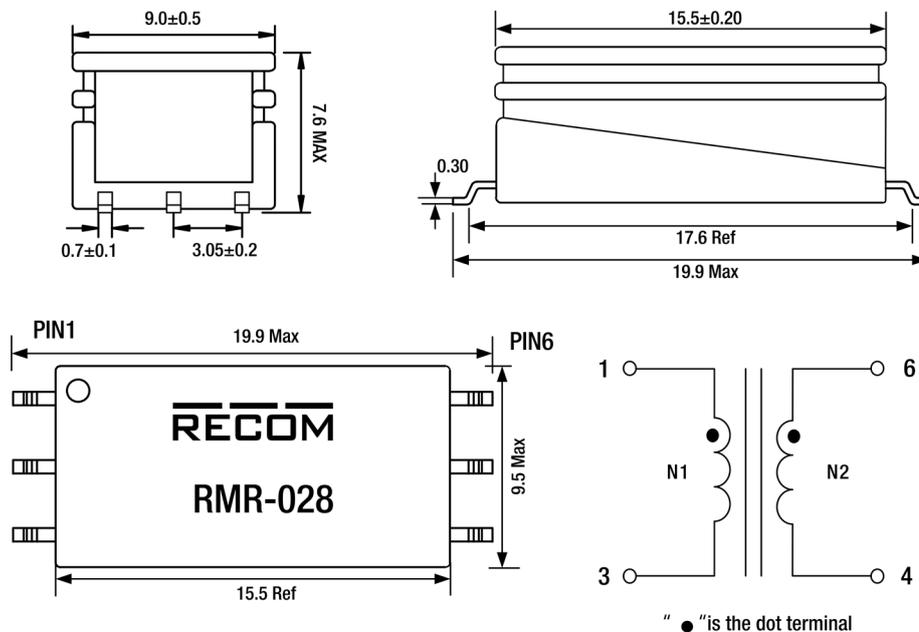


### PRODUCT FEATURES

- 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: 19.9mm x 9.5mm x 7.6mm (MAX)

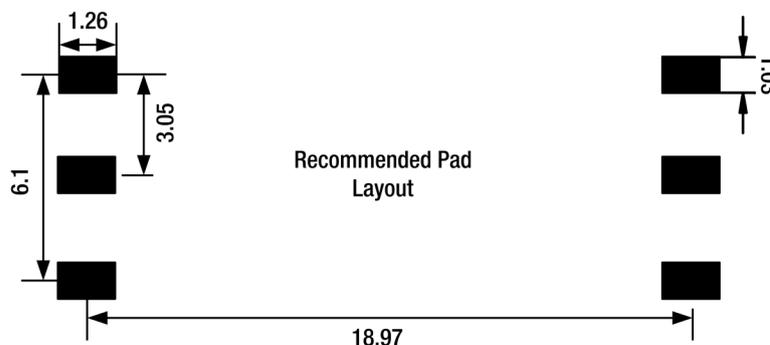
### DIMENSIONS AND SCHEMATIC DIAGRAM [mm]



### PRODUCT MARKING

Pin1	○
Marking	Company Logo
	Product Model

### RECOMMENDED LAND PATTERN [mm]



## ELECTRICAL PROPERTIES

Properties		Test Conditions	Value	Unit	Tol.
Inductance	L	N1/10kHz/0.1V	85.15	μH	min.
Turns Ratio	n	N1:N2	1:1.125		
DC Resistance 1	R <sub>DC1</sub>	N1/25°C	0.23	Ω	Max
DC Resistance 2	R <sub>DC2</sub>	N2 /25°C	0.36	Ω	Max
Voltage-μSecond	∫ Udt	N1/ bipolar waveform	20.35	Vμs	
Interwinding Capacitance	C <sub>VWV</sub>	PIN1-6/100kHz/ 0.1V/25°C	15	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:N2/60s/1mA	5000	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 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

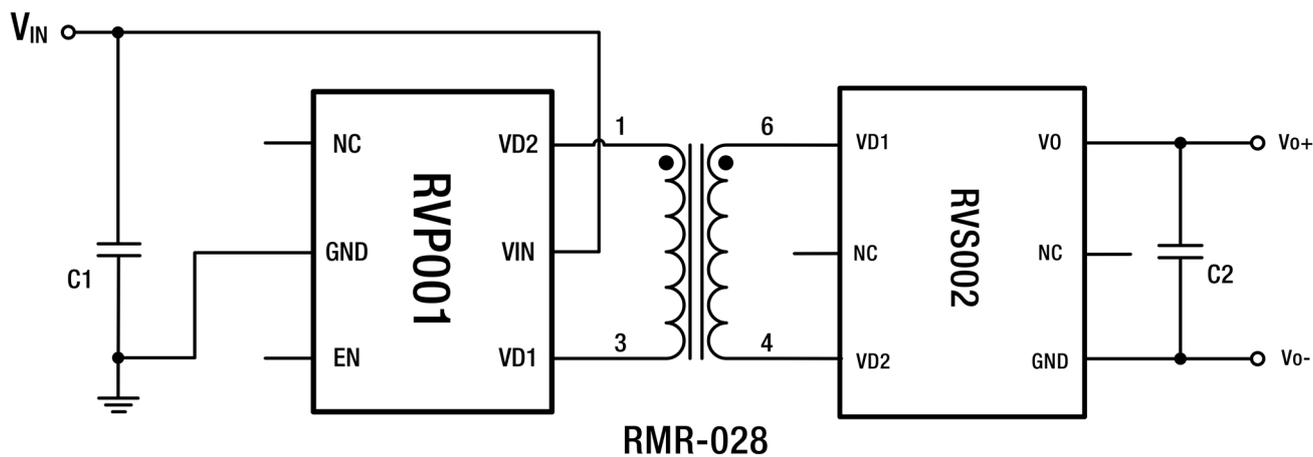
Input Voltage	V <sub>IN</sub>	5	V(DC)
Output Voltage 1	V <sub>OUT1</sub>	5	V(DC)
Output Current 1	I <sub>OUT1</sub>	200	mA
Switching Frequency	f <sub>switch</sub>	340	kHz

Input : N1

Output 1: N2

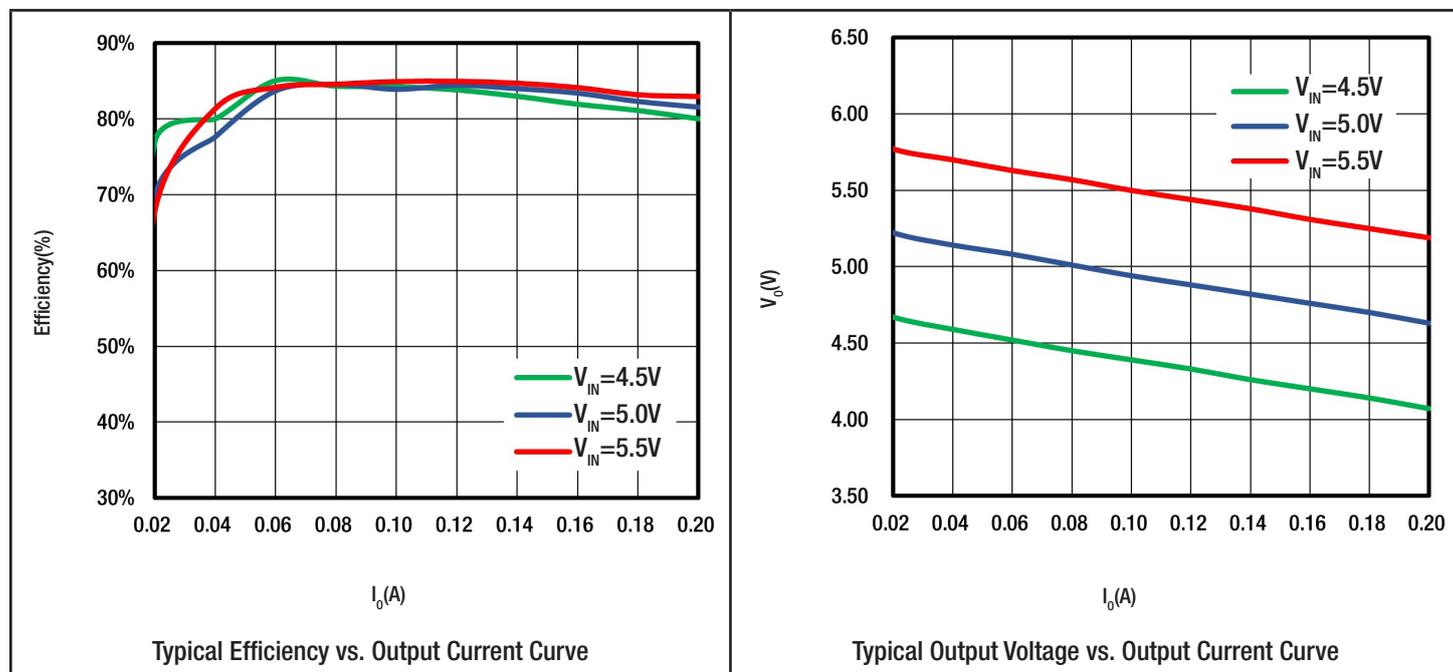
Table and graph show a typical application. Values may vary by application.

REFERENCE CIRCUIT DIAGRAM



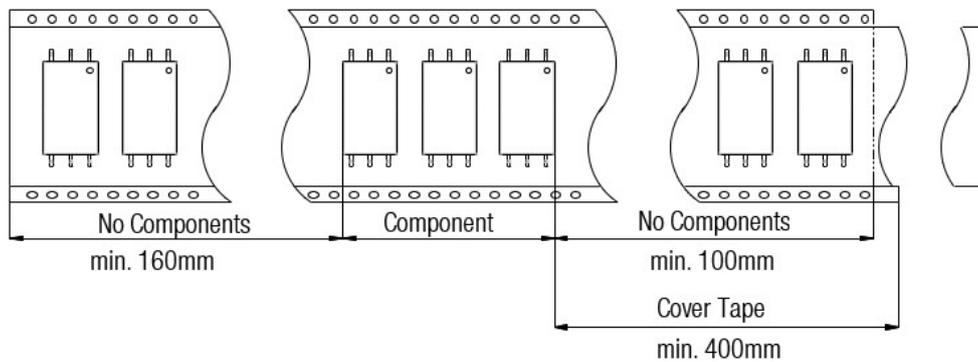
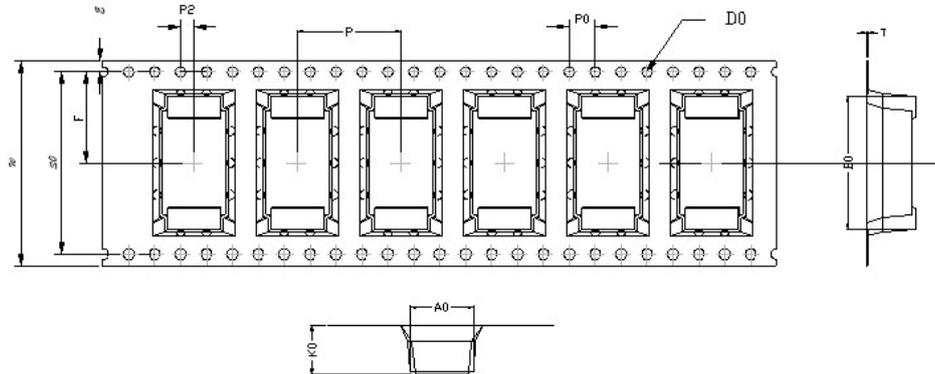
RMR-028

Typical Curve:

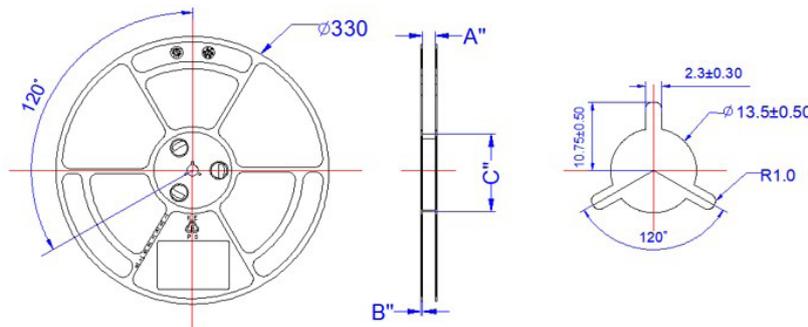


**PACKAGING SPECIFICATION - TAPE [mm]**

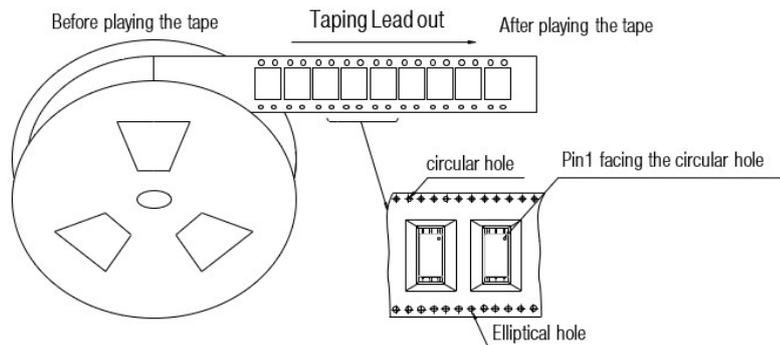
ITRM	W	A0	B0	K0	K1	P	F	E	S0	D0	P0	P2	T
DIM	44.00	9.30	20.30	7.00	--	16.00	20.20	1.75	40.40	1.50	4.00	2.00	0.40
TOLE	+0.30 -0.30	+0.15 -0.15	+0.15 -0.15	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.00	+0.10 -0.10	+0.15 -0.15	+0.05 -0.05



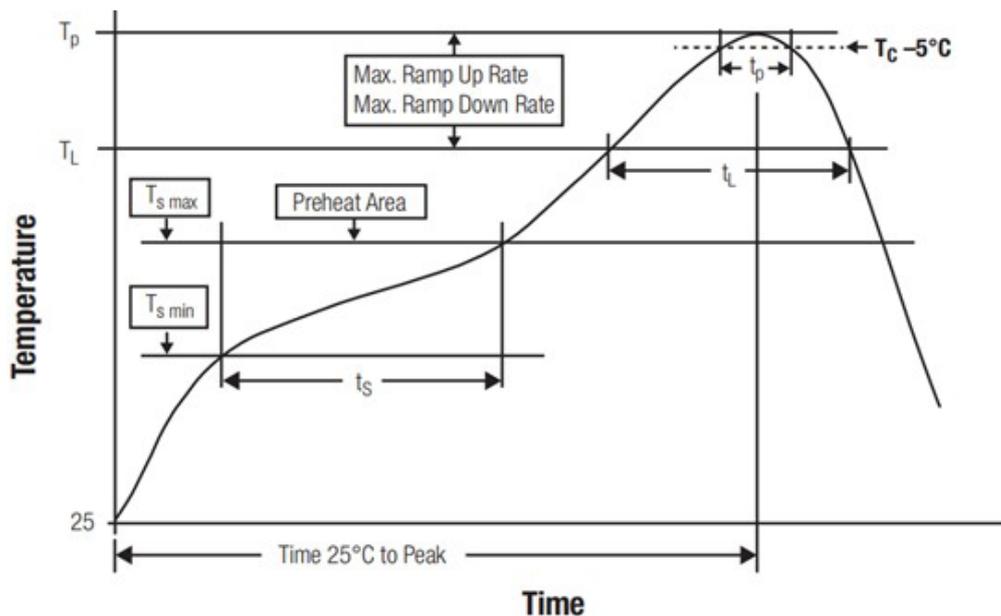
**Reel [mm]**



				✓	
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	$t_p$	10 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-028-F55S-R	RMR-028	1.44g	Tape & Reel	500pcs

\*Marking Code

RMR028—— Product Code

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