

Features

- 1) Special construction prevents sulfur gas penetration, significantly increasing reliability.
- 2) ROHM resistors have obtained ISO9001 / ISO / TS16949 certification.



Products List

Part No.	Si	ze	Rated Power (70°C)	Limiting Element Voltage	Temperature Coefficient	Resistance Tolerance	Registeres Renge	Series	Operating Temperature				
Fait NO.	(mm)	(inch)	(W)	(V)	(ppm / °C)	(%)	Resistance Range	Oches	Range (°C)				
					+500 / -250	1(+====0/)	1Ω to 9.1Ω						
TRR01	1005	0402	0.063	50	±200	J(±5%)	10Ω to 10MΩ	E24					
	1005	0402			±100	F(±1%)	10Ω to 2.2MΩ						
				J	umper type : Rm	$\max = 50 \text{m} \Omega / \text{Im}$	ax. = 1A						
									±400	J(±5%)	1Ω to 9.1Ω		
TRR03	1608	0603	0.1	50	±200	J(±5%)	10Ω to 10MΩ	E24					
IRRUS	1000	5 0003			±100	F(±1%)	10Ω to 10MΩ						
				Jumper type : Rmax = $50m \Omega$ / Imax. = 1A					-55 to +155				
						±400	J(±5%)	1Ω to 9.1Ω		-55 10 +155			
TRR10	2012	0805	0.125	150	±200	J(±376)	10Ω to 10MΩ	E24					
	2012	0805			±100	F(±1%)	10Ω to 2.2MΩ						
				Jumper type : $Rmax = 50m \Omega / Imax. = 2A$									
	3216	3216 1206	0040 4000		0.25			±400	J(±5%)	1Ω to 9.1Ω			
TRR18						0.25 200	±200	J(±J /0)	10Ω to 10MΩ	E24			
					±100	F(±1%)	10Ω to 2.2MΩ						
				J	umper type : Rm	$\max = 50 \text{m} \Omega / \text{Im}$	ax. = 2A						

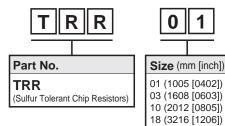
*Design and specifications are subject to change without notice.

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Carefully check the specification sheet supplied with the product before using or ordering it.

Part Number Description



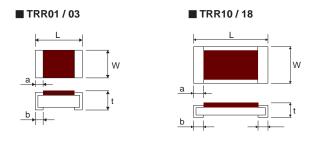
Μ	Ζ	Ρ

Packa	ging Spe	ecifications	Code	Resistance
Part No.	Code	Packaging specifications	Quantity / Reel	Tolerance
TRR01	MZP	Paper tape (2mm Pitch)	10,000	F(±1%) J(±5%)
TRR03	EZP	Paper tape (4mm Pitch)	5,000	
TRR10	EZP	Paper tape (4mm Pitch)	5,000	
TRR18	EZP	Paper tape (4mm Pitch)	5,000	

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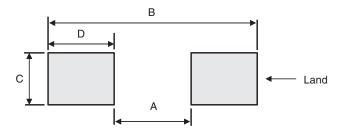
ľ	Iominal I	Resis	stance
	esistance 00 denotes		3 or 4 digits. ber type.
	Resistan toleranc		Resistance code
	F	:	4 digits
	J	:	3 digits
Е	x.)		
	$1\Omega = 1$	1R0	(±5%)
	9.1Ω = 9	9R1	(±5%)
	$10 \Omega = 10$	10R0	(±1%)
		100	(±5%)
	$1M \Omega =$	1004	(±1%)
		105	(±5%)

•Chip Resistor Dimensions and Markings



							(Unit : mm)	
Part No.	(mm)	(inch)	L	W	t	а	b	Marking existence *Including jumper type
TRR01	1005	0402	1.0±0.05	0.5±0.05	0.35±0.05	0.33±0.08	0.25 ^{+0.05} _{-0.1}	No
TRR03	1608	0603	1.6±0.1	0.8±0.1	0.45±0.1	0.4±0.1	0.3±0.2	No
TRR10	2012	0805	2.0±0.1	1.25±0.1	0.55±0.1	$0.43^{+0.15}_{-0.1}$	0.4±0.2	No
TRR18	3216	1206	3.2±0.15	1.6±0.15	0.55±0.1	0.69 ^{+0.2} _{-0.15}	0.5±0.25	No

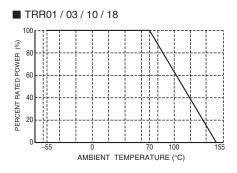
•Land pattern Example



				(Unit : mm)
Dimensions Part No.	A	В	С	D
TRR01	0.5	1.3	0.5	0.4
TRR03	1.0	2.0	0.8	0.5
TRR10	1.2	2.6	1.15	0.7
TRR18	2.2	4.0	1.5	0.9

•Derating Curve

When the ambient temperature exceeds 70°C, power dissipation must be adjusted according to the derating curves below.



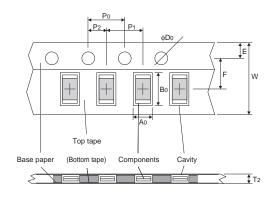
Characteristics

Test Items	Guarante	ed Value	Test Conditions	
	Resistor Type	Jumper Type		
Resistance	See	P.1	20°C	
Variation of resistance with temperature	See	P.1	Measurement : +20 / -55 / +20 / +125°C	
Overload	± (2.0%+0.1Ω)	Max. 50mΩ	Rated voltage (current) ×2.5, 2s Maximum overload voltage	
Solderability	A new uniform coating of minimum of 95% of the surface being immersed and no soldering damage.		Rosin-Ethanol : 25% (Weight) Soldering condition : 235±5°C Duration of immersion : 2.0±0.5s	
Resistance to soldering heat	\pm (1.0%+0.05Ω) Max. 50mΩ No remarkable abnormality on the appearance.		Soldering condition : 260±5°C Duration of immersion : 10±1s	
Rapid change of temperature	± (1.0%+0.05Ω)	Max. 50mΩ	Test temp. : -55°C to +125°C 5cycle	
Damp heat, steady state	± (3.0%+0.1Ω)	Max. 100mΩ	40°C, 93%RH (Relative Humidity) Test time : 1,000h to 1,048h	
Endurance at 70°C	± (3.0%+0.1Ω)	Max. 100mΩ	70°C Rated voltage (current) 1.5h : ON – 0.5h : OFF Test time : 1,000h to 1,048h	
Endurance	± (3.0%+0.1Ω)	Max. 100mΩ	155°C Test time : 1,000h to 1,048h	
Resistance to solvent	± (1.0%+0.05Ω)	Max. 50mΩ	23±5°C, Immersion cleaning, 5±0.5min Solvent : 2–propanol	
Bend strength of the end face plating	± (1.0%+0.05Ω)	Max. 50mΩ	_	
The end lace planing	Without mechanical da	amage such as breaks.		

Compliance Standard(s) : IEC60115–8 JISC 5201–8

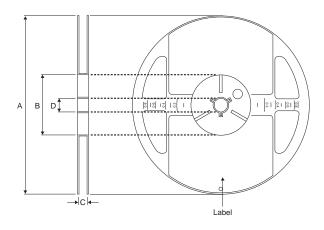
•Tape Dimensions

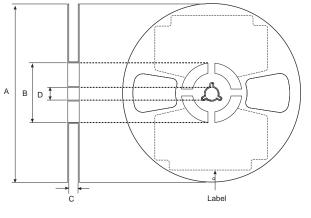
Paper Tape



					(Unit : mm)
Part No.	W	F	E	A0	B0
TRR01	8.0±0.3	3.5±0.05	1.75±0.1	0.7±0.1	1.2±0.1
TRR03	8.0±0.3	3.5±0.05	1.75±0.1	1.1±0.1	1.9±0.1
TRR10	8.0±0.3	3.5±0.05	1.75±0.1	1.65 ^{+0.2} -0.1	2.4 ^{+0.2} -0.1
TRR18	8.0±0.3	3.5±0.05	1.75±0.1	1.95 ^{+0.1} -0.05	3.5 ^{+0.15} -0.05
Part No.	D0	P0	P1	P2	T2
TDD04	.0.1				
TRR01	φ1.5 ^{+0.1} 0	4.0±0.1	2.0±0.05	2.0±0.05	Max 1.1
TRR01	φ1.5 +0.1 φ1.5 +0.1 0	4.0±0.1 4.0±0.1	2.0±0.05 4.0±0.1	2.0±0.05 2.0±0.05	Max 1.1 Max 1.1
	-				

•Reel Dimensions





ACCORDING TO EIAJ ET-7200B

ACCORDING TO EIAJ ET-7200B (RRV)

				(Unit : mm)
Part No.	А	В	С	D
TRR01				
TRR03	A180 0	φ60 ^{+1.0}	9 +1.0	412±0.2
TRR10	φ180 0 -1.5	φου Ο	90	φ13±0.2
TRR18				

	Notes
1)	The information contained herein is subject to change without notice.
2)	Before you use our Products, please contact our sales representative and verify the latest specifications :
3)	Although ROHM is continuously working to improve product reliability and quality, semicon- ductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Poducts beyond the rating specified by ROHM.
4)	Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The periphera conditions must be taken into account when designing circuits for mass production.
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7)	The Products specified in this document are not designed to be radiation tolerant.
8)	For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
9)	Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.
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