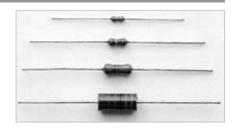
(IDK)

High Stability Insulated Metal Film Fixed Resistors

■ Features

Metal film resistor with high stability and high reliability. Avaible with the tolerance of $\pm 0.5\%$, $\pm 1.0\%$, $\pm 2.0\%$, $\pm 5.0\%$.



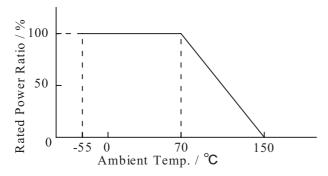
■Power Rating

Model No.	Power Rating	Max. Working Voltage	Max. Overload Voltage	Resistance Range	Tolerance	T.C.R.	Rated Ambient Temp.	Operating Temp.Range
	[W]	[V]	[V]	[Ω]	[%]	[ppm/°C]	[°C]	[°C]
RTL1/4	0.25	250	500	10 ∼ 100k	±0.5	±50		
RTL1/2	0.5	350	700	10∼100k	±1.0	±100	+70	55 150
RTL 1	1.0	500	1000	10∼100k	±2.0	± 200	+/0	-55 ~ +150
RTL 2	2.0	500	1000	10∼100k	±5.0	±∠00		

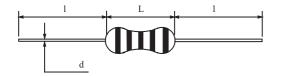
 \bigstar Rated Voltage: $\sqrt{P^*R}$ (P=Rated power (W), R=Nominal resistance(Ω)) Rated Voltage shall be either the calculated rated voltage or Max. Working Voltage whichever less.

 $\not \simeq$ D (±0.5%) is available in the range of 100 Ω ~ 100k Ω (All size available)

■ Derating Curve



■ Dimensions



 $\not\simeq$ Marking: G (\pm 2.0), J (\pm 5.0) are 4 color code lines

☆Body color : Brown

Model No.		Dimensions(mm)						
Wiodel No.	L	D	1	d				
RTL1/4	6.4±0.8	2.3 ± 0.4	27min.	0.6 ± 0.1				
RTL1/2	9.5 ±1.1	3.5 ± 0.6	38±3	0.65 ± 0.1				
RTL 1	14.2 ± 0.8	4.8 ± 0.4	38±3	1.0 ± 0.1				
RTL 2	17.5 ± 1.1	8.0 ± 0.5	38±3	1.2 ± 0.1				



High Stability Insulated Metal Film Fixed Resistors

■ Model Designation

 $\begin{array}{c|cccc} \underline{RTL} & \underline{1/4} & \underline{C3} & \underline{1k\Omega} & \underline{F} & \underline{TU} \\ \hline \textcircled{1} & \textcircled{2} & \textcircled{3} & \textcircled{4} & \textcircled{5} & \textcircled{6} \end{array}$

	_				
		Symbol	Meaning		
			INSULATED HIGH		
1	Model No.	RTL	STABILITY FIXED METAL		
			FILM RESISTORS		
		1/4	0.25W		
	Power Rating	1/2	0.5W		
2	1 Ower Rating	1	1.0W		
		2	2.0W		
		C2	± 50ppm/°C		
3	T.C.R.	C3	±100ppm/°C		
		C4	±200ppm/°C		
		1kΩ	Standard Resistance		
4	Resistance	1 1 75	E-24, E-96 series		
4		For detail description about resistance marking, please refer to "General Specifications."			
		D	±0.5%		
	Tolerance	F	±1.0%		
5	1 olerance	G	±2.0%		
		J	±5.0%		
		No Marking	Bulk		
6	Forming,	TU,TP Axial Taping			
0	Packaging	For detail description about forming and taping specification, please refer to Taping Specification page in "General Specifications."			

HDK

Superior Precision Insulated Metal Film Fixed Resistors

Feature

Model No. "RTH" is equivalent to MIL-R-10509F.

Model No. "RTH" is available up to $\pm 0.05\%$, and also the most suitable for applications of precision electronics equipment.

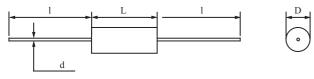


■ Power Rating

	Power	Max.	Max.				D:-+	D (O)			Rated	Operating
Model No.	Rating	Working	g Overload	T.C.R.		Resistance Range (Ω)					Ambient	Temp.
WIOUCI INO.	Rating	Voltage	Voltage		±0.05%	±0.1%	±0.25%	±0.5%	<u>±</u> 1%	±2,±5%	Temp.	Range
	[W]	[V]	[V]	[Ω]			[]	[2]			[°C]	[°C]
				± 25	50~100k	50 ∼ 100k	50~100k	50~100k	50~100k	_		
RTH1/10	0.1	200	400	± 50	_	50 ∼ 100k	50 ∼ 100k	50~150k	50~150k	ı		
				±100	_	_	50 ∼ 100k	50~150k	10 ~ 400k	10 ~ 400k		
				± 25	50~300k	50 ~ 300k	30 ∼ 500k	30 ∼ 500k	30 ∼ 500k	_		
RTH1/8	0.125	250	500	± 50	_	50 ~ 300k	30 ∼ 500k	20~600k	20 ∼ 600k	_		
				±100	_	_	30 ∼ 500k	20~600k	10 ∼ 600k	10~600k		
				± 25	50~500k	50 ∼ 1M	30 ∼ 1M	30 ∼ 1M	30 ∼ 1M	_		-55 ∼
RTH1/4	0.25	300	600	± 50	_	50 ∼ 1M	30 ∼ 1M	20~1.5M	20~1.5M	-	+125	+175
				±100	_	İ	30 ∼ 1M	20~1.5M	10 ~ 2M	10 ~ 2M		+1/3
				± 25	50 ∼ 1M	50 ~ 1.5M	30 ∼ 1.5M	30 ~ 1.5M	30 ∼ 1.5M	ı		
RTH1/2	0.5	500	1000	± 50	_	50~1.5M	30~1.5M	20~1.8M	20~1.8M	_		
				±100	_	-	30 ~ 1.5M	20~1.8M	10 ~ 3M	10 ~ 3M		
				± 25	50 ∼ 1M	50 ~ 1.5M	30 ~ 1.5M	30 ~ 1.5M	30 ∼ 1.5M	ı		
RTH 1	1.0	1.0 500 1	1000 ± 50	± 50	_	50 ~ 1.5M	30 ~ 1.5M	20~1.8M	20~1.8M	-		
				±100	_	_	30 ~ 1.5M	20~1.8M	10 ~ 3M	10 ~ 3M		

 $Rated Voltage: P Rated power (W), R=Nominal resistance (\Omega))$ Rated Voltage shall be either the calculated rated voltage or Max. Working Voltage whichever less.

■ Dimensions

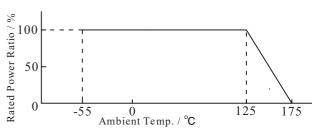


 $\mathop{\not \simeq} \mathsf{Body}\,\mathsf{Color}\, {:}\, \mathsf{Brown}$

☆Marking: Stamping

Model No.		Dimensions(mm)					
WIOGCI IVO.	L	D	1	d			
RTH 1/10	6.8 +0.3 -1.0	3.0 +0.5 -1.0	38±3	0.65±0.05			
RTH 1/8	9.5±0.5	3.2 +1.0	38±3	0.65 ± 0.05			
RTH 1/4	14.5 +0.6 -0.5	4.8 +1.5	38±3	0.65 ± 0.05			
RTH 1/2	19.1 +2.4 -0.6	6.4 +1.7 -0.2	38 <u>+</u> 3	0.8 ± 0.05			
RTH 1	19.1 +2.4 -0.6	6.4 +1.7 -0.2	38±3	0.8 ± 0.05			

■Derating Curve



■ Model Designation

RTH	1	<u>C3</u>	<u>100Ω</u>	<u>A</u>
(1)	(2)	(3)	(4)	(5)

		Symbol	Meaning
	Model No.	RTH	INSULATED SUPERIOR PRECISION
(1)	Widdel No.		FIXED METAL FILM RESISTORS
		1/10	0.10W
	Power Rating	1/8	0.125W
2		1/4	0.25W
		1/2	0.5W
		1	1 .0W
		C1	± 25ppm/°C
3	T.C.R.	C2	± 50ppm/°C
		C3	±100ppm/°C

	Resistance	100 Ω	Standard Resistance
(4)		100 32	E-96 Series
4	Resistance	For detail descri	ription about resistance marking,
		please refer to	"General Specifications."
		A	±0.05%
		В	±0.1%
		C	±0.25%
⑤	Tolerance	D	±0.5%
		F	±1.0%
		G	<u>+</u> 2.0%
		J	±5.0%