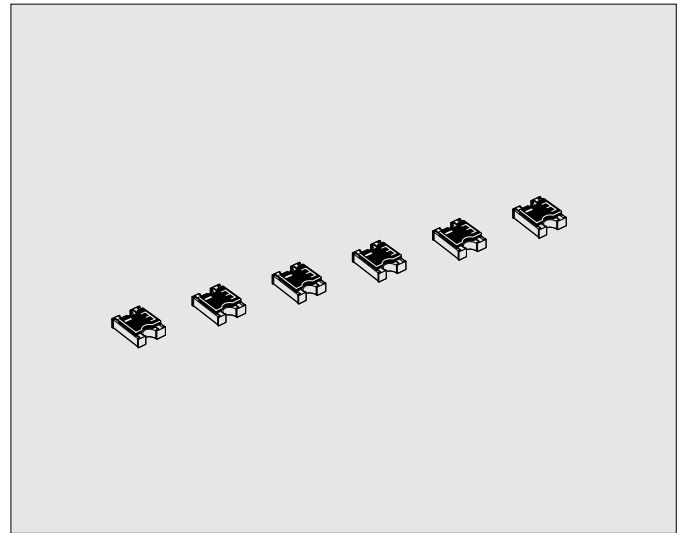


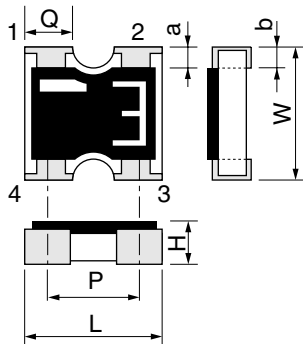
# RAC101A

## ●Features

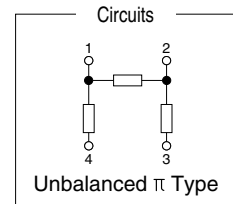
1. Suitable for use at DC and up to UHF band frequencies.
2. 75 ohm is available upon request.
3. Replaceable three discrete resistors with one chip on attenuation circuits.



## ●Dimensions and Circuits



Dot mark on Termination 1  
Attenuation factor on Termination 2 to 3



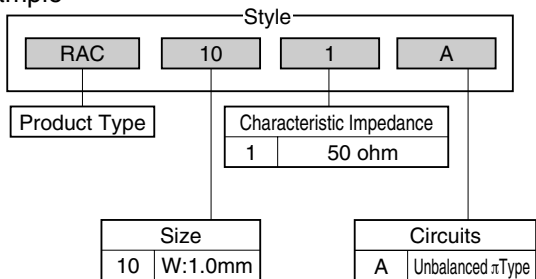
Style	Terminal Style	L	W	H	Q	a	b	*P	*Unit weight/pc.
RAC101A	C	1.0±0.05	1.0±0.05	0.35±0.05	0.33±0.10	0.15±0.10	0.25 <sup>+0.05</sup> <sub>-0.10</sub>	0.65	1.1mg

Unit : mm

\*Values for reference

## ●Part Number Description

Example



1	
Attenuation Factor	
0	0dB
X	0.5dB
1	1dB
Y	1.5dB
2	2dB
3	3dB
4	4dB
5	5dB
6	6dB
7	7dB
8	8dB
9	9dB
A	10dB
B	11dB
C	12dB
D	13dB
E	14dB
F	15dB
G	16dB
H	17dB
J	18dB
K	19dB
L	20dB

C	
Terminal Style	
C	Convex Type With corner

TH		
* Packaging & Standard Qty. (Min.)		
B	Bulk (Loose Package)	1,000pcs.
TH	Paper Tape (2 mm pitch)	10,000pcs.

\*Refer to Tape and Packaging information on pages 48 and 49.

RAC101A Chip Attenuators

CHIP ATTENUATORS

RAC101A

●Ratings

Style	Characteristic Impedance	Attenuation Factor		Tolerance on Attenuation Factor dB	Voltage Standing Wave Ratio	Frequency Range	Rated Input Power mW/package	Category Temperature Range °C
		symbol	dB					
RAC101A	50 ohm	0	0	-	-	-	100	-40~+125
		X	0.5	±0.1	1.1max.			
		1	1	±0.3	1.2max.			
		Y	1.5					
		2	2					
		3	3					
		4	4					
		5	5	±0.4				
		6	6					
		7	7					
		8	8					
		9	9	±0.8				
		A	10					
		B	11					
		C	12	±1.0				
		D	13					
		E	14	±1.5				
F	15							
G	16	±2.0						
H	17							
J	18							
K	19	±2.5						
L	20							

Note. The following information is available.  
 1. Test methods for Attenuation Factor and VSWR characteristics.

●Performance Characteristics JIS C 5201-1 : 1998

Description	Requirements			Test Methods
	0.5~2dB	3dB~5dB	6dB~20dB	
Characteristic impedance	50 ohm			Measuring Circuits  RL=50 ohm
Insulation resistance	At least 100M ohm			50Vd.c., 60s
Solderability	In accordance with Clause 4.17.4.5			Clause 4.17 Dip into 235°C Solder bath for 2s.
Resistance to soldering heat	Within ±0.1dB No major visible damage.	Within ±0.2dB	Within ±0.3dB	Clause 4.18 Dip into 260°C Solder bath for 5s.
Rapid change of temperature	Within ±0.1dB No major visible damage.	Within ±0.2dB	Within ±0.3dB	Clause 4.19 5 cycles between -55°C and +125°C.
Endurance at 85°C	Within ±0.1dB	Within ±0.2dB	Within ±0.3dB	Clause 4.25.1 Rated input power, 1.5h"ON", 0.5h"OFF", 85°C, 1,000h.
Bend strength of the face plating	Within ±0.1dB	Within ±0.2dB	Within ±0.3dB	Clause 4.33 Amount of bend : 3 mm