

## Miniature 16mm dual potentiometers – PC2G16ECO series

### Mechanical specification

Rotation angle $\phi_N$		$275^\circ \pm 5^\circ$
Operation torque		0.4 – 1.5 Ncm
Permissible torque at end stop		35 Ncm max.
Permissible axial spindal load		50 Ncm (5sec. Max.)
Mounting bush:-	Thread	$\varnothing 10 \times 0.75\text{mm pitch}$
Spindal:-	Diameter $\varnothing$	$6.0^{+0}/_{-0.05} \text{mm}$
	Length L	40 mm

### Electrical specification

Rated dissipation @ 40°C		0.25W linear law 0.12W non linear law
Limiting element voltage		350VDC
Insulating resistance		$\geq 4\text{G}\Omega$
Insulating voltage		500VAC
Rated resistance		E3 series
	• Linear law	1K to 1M
	• Non-linear law	4K7 – 470K
Tolerance on rated resistance		$\pm 20\%$
	• Optional 1K to 1MEG	$\pm 10\%$
Resistance law		
	• Linear	A
	• Non-linear	B
Noise (ENR)		2% max. (linear) 3% max. (non-linear)

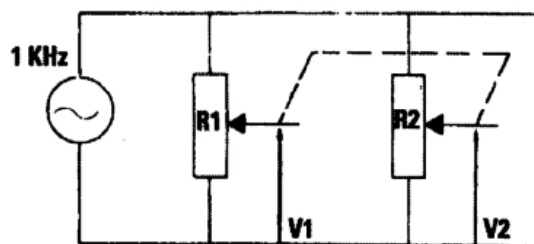
### Matching tolerance

Tandem potentiometers in this series have two identical resistor units with the same variation law. The mismatching of the two resistor units expressed in dB, is measured by the difference between the attenuations introduced by each resistor unit, at various points of travel.

Tolerance values are listed in the following table

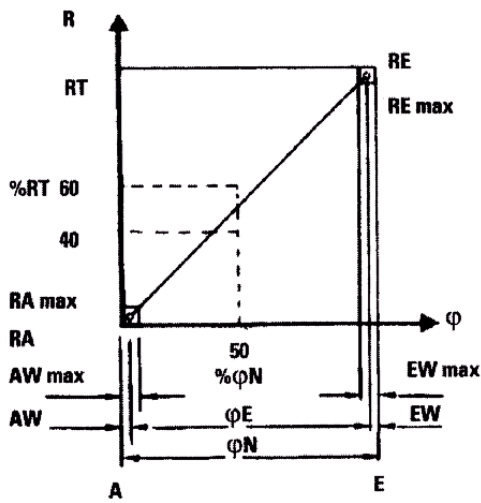
Law	Attenuation range
A	0-20dB
B	0-20dB

Law	Matching tolerance = $20 \log \frac{V1}{V2}$
A	3dB
B	2dB

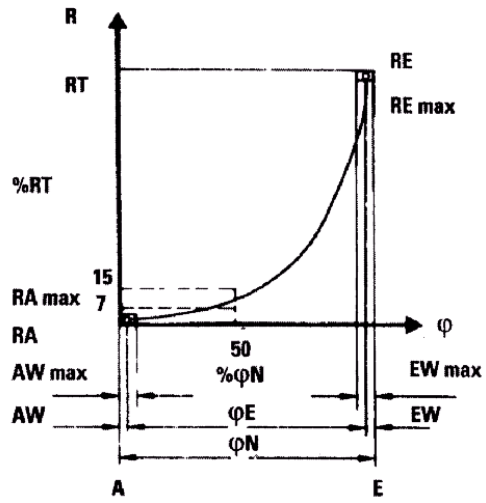


## Resistance Laws

Law A



Law B



A Initial terminal  
 AW Initial path  
 E End terminal  
 EW Final path  
 Ra Initial stop value  
 RA Hop-on resistance

Re End stop value  
 RE Hop-off resistance  
 RN Rated resistance  
 RT Effective resistance  
 $\phi$  Rotation angle of rotary potentiometers

Climatic category (IEC 68) : 10/070/21 rated temperature range  $-10^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  Life  $\geq 10,000$  cycles

