



# italtec

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ISO 9001/2000

## MA 2405 DECADE CAPACITOR BOX

### Description

The MA 2405 consists of three decades made of high-quality tropicalised styroflex capacitors with accuracy  $\pm 1\%$ . Capacitance values on output terminals can be set from 100pF to 100.000pF in steps of 100pF with three selector switches. Switches and capacitors are protected by a special internal housing, connected to a common terminal of all capacitors (central terminal) and fastened to the outer housing over insulation plates. Capacitance between both housing is 100pF  $\pm 2\%$  and is not added to the decade capacitance except when the upper terminal is connected to the external housing.

The extremely high dc insulation resistance of the MA2405 allows the device to be used in dc circuits. Permitted operating voltage corresponds to most requirements occurring in everyday practice.



For discharging the capacitor a pushbutton "discharge" is used which connects the switched-on capacitor to earth via a 100 K $\Omega$  resistor.

### Technical data

Capacitance range	100.....100.000 pF	Max frequency	
-Three decades		X 100 pF	9 MHz
X 100 pF	100..... ..1.000 pF	X 1000 pF	2 MHz
X 1.000 pF	1.000. ...9.000 pF	X 10000 pF	500 KHz
X 10.000 pF	10.000. ..90.000 pF	Permitted max operating voltage	400 V dc - 250 V ac
Accuracy	$\pm 2\%$	Test voltage against external housing	1.5KV ac
Loss angle (tg $\delta$ )		Capacitance between both housing	100 pF $\pm 2\%$
X 100 pF	max $5 \times 10^{-4}$ at 100KHz	Insulation resistance	min 10000 M $\Omega$
X 1.000 pF	max $4 \times 10^{-4}$ at 10KHz	Capacitor discharging over resistor 100 K $\Omega$ with pushbutton "discharge"	
X 10.000 pF	max $4 \times 10^{-4}$ at 1KHz		
Dimensions (LxHxW)	205 X 85 X 175 mm		
Weight	1.35 Kg		

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