

Programmable Capacitance Decade OCM 525



- ✓ 100 pF 100.00 µF
- ✓ Basic Accuracy 0.25%
- ✓ Maximum voltage applied 50V_{p-p}
- ✓ Customized Flow
- ✓ RS232, USB, IEEE488, LAN
- ✓ Internal Calibration Procedure

OCM525 is high precision capacitance decade with basic accuracy of 0.25%, programmable from 100pF to 100 μ F.

The smallest resolution in the low capacitance range is 1pF. According to the selected value, the internal microcontroller calculates the combination of capacitors for highest accuracy and switches them to the output terminals by using special high current relays.

The controller permits correction OPEN of the terminals, grounding of the L terminal and the generation of customized sequences.

Models

OCM525-V1xxx RS232 OCM525-V2XXX RS232, UBS, LAN, GPIB

OCM525-Vxx0x Standalone cabinet

OCM525-Vxx1x 19" Front

The capacitance value will be entered from the keyboard or remotely via RS232. Interfaces USB, LAN or GPIB are optionally available.

Die Decade contains internal software calibration procedure which permits overall calibration and correction of inaccuracies without using mechanical adjusting elements.

OCM525 is used in production field for checking of parameters, calibration of multimeters and RLC bridges and simulation of large range capacitances in design laboratories.

	Accuracy	Loss Coefficient	Accuracy	Loss Coefficient	Temperature
Range-Resolution	@ 1kHz	@ 1kHz	40Hz-1kHz	40Hz-1kHz	Coefficient
	(%)		(%)		ppm/ºC
0.100 nF - 10.000 nF	0.25 ± 3pF	< 0.05	0.5 ± 3pF	< 0.05	< 270
10.001 nF - 100.00 nF	0.25	< 0.005	0.5	< 0.005	< 270
100.01 nF - 1.0000 μF	0.25	< 0.005	0.5	< 0.005	< 270
1.0001 μF - 10.000 μF	0.25	< 0.05	0.5	< 0.05	< 270
10.001 μF - 100.00 μF	0.25*	< 0.2 *	0.5	< 0.2 **	< 270

^{*} for Frequency 100Hz

The capacitance is defined at the output terminals with or without grounding of the terminals. The capacitance is specified in *Correction Open OFF* relativ to the value *OPEN*.

The capacitance with Correction Open ON is an absolut value.

^{**} from 40Hz to 100Hz

SPECIFICATIONS OCM525

(Reference Temperature 21°C ... 25°C)

Maximum applied voltage 50V p-p

< 270 ppm/°C **Temperature Coefficient** Response Time < 200 ms min. 500 ms

Response Time TIMING

gold plated 4mm Terminals **Terminals** Remote Control RS232. Options: USB, GPIB-IEEE488, LAN

90-260VAC, 45-65Hz Supply

23°C ± 2°C Reference Temperature Working Temperature 5°C ... 40°C **Storing Temperature** -10°C ... 50°C

Dimensions 390 x 128 x 310mm (B x H x T)

Weight 4 kg

