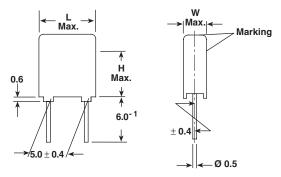


Not for new designs

Vishay Roederstein

Metallized Polycarbonate Film Capacitor Related Document: IEC 60384-6

Dimensions in millimeters



MAIN APPLICATIONS

High frequency coupling and decoupling for fast digital and analog IC's; filter, timing and integrating circuits.

MARKING

Manufacturer's logo/type/C-value/rated voltage/tolerance/date of manufacture

DIELECTRIC

Polycarbonate film

ELECTRODES

Vacuum deposited aluminum

COATING

Flame retardant plastic case (UL-class 94 V-0) red, epoxy resin sealed

CONSTRUCTION

Extended metallized film (refer to general information)

LEADS

Tinned wire

IEC TEST CLASSIFICATION

55/100/21, according to IEC 60068

OPERATING TEMPERATURE RANGE

- 55°C to + 100°C

FEATURES

Product is completely lead (Pb)-free. Product is RoHS compliant.



CAPACITANCE RANGE

 $0.01\mu F$ to $0.33\mu F$



CAPACITANCE TOLERANCES

± 20% (M), ± 10% (K), ± 5% (J)

RoHS

RATED VOLTAGES (U_R)

63 VDC, 100 VDC

PERMISSIBLE AC VOLTAGES (RMS) UP TO 60HZ 40 VAC, 63 VAC

TEST VOLTAGE (ELECTRODE/ELECTRODE) 1.6 x U_R for 2 s

INSULATION RESISTANCE

Measured at 100 VDC (63 VDC series measured at 50 VDC) after one minute 3750 M Ω minimum value (50,000 M Ω typical value)

CAPACITANCE DRIFT

Up to $\pm 40^{\circ}$ C, $\pm 1\%$ for a period of two years

DERATING FOR DC AND AC.CATEGORY VOLTAGE UC

At + 85°C: $U_C = 1.0 U_R$ At + 100°C: $U_C = 0.8 U_R$

SELF INDUCTANCE

~ 6 nH measured with 2mm long leads

PULL TEST ON LEADS

≥ 30 N in direction of leads according to IEC 60068-2-21

RELIABILITY

Operational life > 300,000 h Failure rate < 1 FIT (40°C and 0.5 x U_B)

For further details, please refer to the general information available at www.vishav.com/doc?26033.

MAXIMUM PULSE RISE TIME

PCM	Maximum Pulse Rise Time d _v /d _t [V/μs]		
(mm)	63 VDC	100 VDC	
5	17	24	

If the maximum pulse voltage is less than the rated voltage higher dv/dt values can be permitted.

DISSIPATION FACTOR TAN δ

MEASURED AT	C ≤ 0.1µF	0.1μF < C ≤ 1.0μF		
1kHz	3 x 10 ⁻³	3 x 10 ⁻³		
10kHz	4 x 10 ⁻³	4 x 10 ⁻³		
100kHz	10 x 10 ⁻³	_		
	Maximum values			

Document Number: 26026 Revision: 05-Jul-05 For technical questions contact; dc-film@vishav.com

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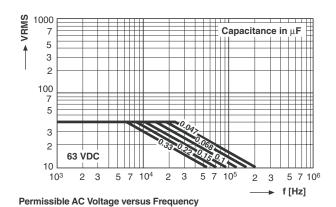
CAPACITANCE	CAPACITANCE CODE	VOLTAGE CODE 06 63 VDC/ 40 VAC			VOLTAGE CODE 01 100 VDC/ 63 VAC		
		W	Н	L	W	Н	L
0.01μF	- 310		_		2.5	6.0	7.5
0.015μF	- 315	_	_	_	2.5	6.0	7.5
0.022μF	- 322	_	_	_	2.5	6.0	7.5
0.033μF	- 333	_	_	_	2.5	6.0	7.5
0.047μF	- 347	2.5	6.0	7.5	_	_	_
0.068μF	- 368	2.5	6.0	7.5	_	_	_
0.10μF	- 410	3.5	8.5	7.5	_	_	_
0.15μF	- 415	3.5	8.5	7.5	_	_	_
0.22μF	- 422	4.5	9.5	7.5	_	_	_
0.33μF	- 433	5.0	10.0	7.5	_	_	_

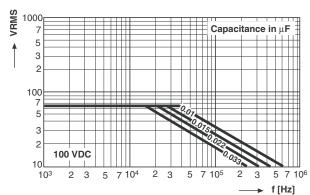
Further C-values upon request

RECOMMENDED PACKAGING

LETTER CODE	TYPE OF PACKAGING	HEIGHT (H) (mm)	REEL DIAMETER (mm)	ORDERING CODE EXAMPLE	PCM 5
D	АММО	16.5	S*	MKC 1858-433-065-D	Х
G	АММО	18.5	S*	MKC 1858-433-065-G	Х
F	REEL	16.5	350	MKC 1858-433-065-F	Х
w	REEL	18.5	350	MKC 1858-433-065-W	Х
_	BULK	_	_	MKC 1858-433-065	Х

^{*}S = box size 55 x 210 x 340mm (W x H x L)





Permissible AC Voltage versus Frequency

Legal Disclaimer Notice



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