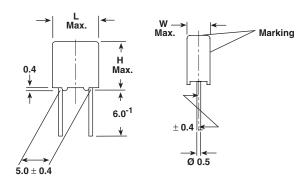


Not for new designs

Vishay Roederstein

Polycarbonate Film Capacitor Related Document: IEC 60384-12

Dimensions in millimeters



MAIN APPLICATIONS

Oscillator, timing and LC/RC filter circuits, high frequency coupling and decoupling of fast digital and analog IC's.

MARKING

Manufacturer'slogo/type/C-value/ratedvoltage/tolerance/date of manufacture

DIELECTRIC

Polycarbonate film

ELECTRODES

Metal foil

COATING

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

CONSTRUCTION

Extended foil (refer to general information)

LEADS

Tinned wire

IEC TEST CLASSIFICATION

55/100/56, according to IEC 60068

OPERATING TEMPERATURE RANGE

- 55°C to + 100°C



CAPACITANCE RANGE

220pF to 10,000pF

CAPACITANCE TOLERANCES

 $\pm 20\%$ (M), $\pm 10\%$ (K), $\pm 5\%$ (J)

RATED VOLTAGES (U_R)

63 VDC, 100 VDC, 160 VDC

PERMISSIBLE AC VOLTAGES (RMS) UP TO 60HZ 40 VAC, 63 VAC, 100 VAC

TEST VOLTAGE (ELECTRODE/ELECTRODE)

 $2 \times U_R$ for $2 \times U_R$

PULSE RISE TIME

 $d_v/d_t = 1000 \text{ V/}\mu\text{s}$

INSULATION RESISTANCE

Measured at 100 VDC $\overline{(63 \text{ VDC series measured at 50 VDC)}}$ after one minute

500,000 M Ω minimum value (1000 G Ω typical value)

CAPACITANCE DRIFT

Up to + 40°C, \pm 0.5% 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.

DISSIPATION FACTOR TAN δ

MEASURED AT	C ≤ 0.1µF
1kHz	2 x 10 ⁻³
10kHz	4 x 10 ⁻³
100kHz	8 x 10 ⁻³
	Maximum values

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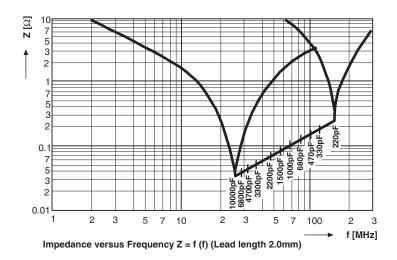
CAPACITANCE	CAPACITANCE CODE	VOLTAGE CODE 06 63 VDC/40 VAC			VOLTAGE CODE 01 100 VDC/63 VAC			VOLTAGE CODE 16 160 VDC/100 VAC		
		W	Н	L	W	Н	L	W	Н	L
220pF	- 122	_	_	_	_	_		2.5	6.5	7.2
330pF	- 133	_	_	_	_	_	_	2.5	6.5	7.2
470pF	- 147	_	_	_	_	_	_	2.5	6.5	7.2
680pF	- 168	_	_	_	_	_	_	2.5	6.5	7.2
1000pF	- 210	_	_	_	_	_	_	2.5	6.5	7.2
1500pF	- 215	_	_	_	2.5	6.5	7.2	3.5	8.5	7.2
2200pF	- 222	_	_	_	2.5	6.5	7.2	3.5	8.5	7.2
3300pF	- 233	2.5	6.5	7.2	_	_	_	_	_	_
4700pF	- 247	2.5	6.5	7.2						
6800pF	- 268	3.0	7.5	7.2	_	_	_	_	_	_
0.01μF	- 310	3.5	8.5	7.2	_	_	_	_	_	_

Further C-values upon request.

RECOMMENDED PACKAGING

LETTER CODE	TYPE OF PACKAGING	HEIGHT (H) (mm)	REEL DIAMETER (mm)	ORDERING CODE EXAMPLE	PCM 5
D	AMMO	16.5	S*	KC 1850-210/165-D	Х
G	AMMO	18.5	S*	KC 1850-210/165-G	Х
F	REEL	16.5	350	KC 1850-210/165-F	Х
W	REEL	18.5	350	KC 1850-210/165-W	Х
_	BULK	_	_	KC 1850-210/165	Х

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



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