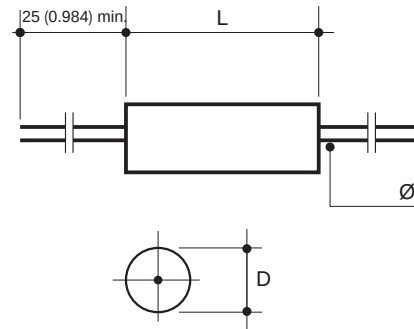


APPLICATIONS

Non-inductive, insulated capacitor for professional use. Cylindrical axial leads, polyester wrapped, epoxy resin sealed.

Some examples of use:

Oscillating circuit, LF filter, coupling and decoupling, frequency discriminator.



STANDARDIZATION

Generic specifications:

CEI 384-1/CECC 30000/UTE 83100

Sectional specifications:

CEI 384-2/CECC 30400/UTE 83151

On the LNZ 44-04 list:

Complies with type CPM72

NOTE: For new design, please refer to SG series (optimized range)

DIMENSIONS:

millimeters (inches)

Size Code	L max.	D max.	$\varnothing^{+10\%}_{-0.05}$	Observations
10	12.0 (0.472)	5.0 (0.197)	0.6 (0.024)	$1\text{nF} \leq C_R \leq 100\text{nF}$
13	14.5 (0.571)	5.0 ... 7.5 (0.197 ... 0.295)	0.6 (0.024)	$4.7\text{nF} \leq C_R \leq 300\text{nF}$
18	20.0 (0.787)	7.5 ... 10.0 (0.295 ... 0.394)	0.8 (0.031)	$33\text{nF} \leq C_R \leq 1\mu\text{F}$
27	27.5 (1.083)	8.75 ... 12.5 (0.344 ... 0.492)	0.8 (0.031)	$100\text{nF} \leq C_R \leq 3.3\mu\text{F}$
31	33.0 (1.299)	12.5 ... 21.5 (0.492 ... 0.846)	.08 (0.031)	$330\text{nF} \leq C_R \leq 10\mu\text{F}$

HOW TO ORDER

S9 13

Type

4

Class

G

Voltage

0104

Capacitance Value

K

Tolerance

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Suffix
Tape and Reel
See page 47

PERFORMANCE CHARACTERISTICS

Climatic category:	55/100/21 - Performance Class 1
Capacitance range:	C_R 1 nF to 10 μF
Tolerances on C_R (assoc. series):	$\pm 5\%$, $\pm 10\%$, $\pm 20\%$ (E6) (other values on request)
Nominal voltages:	V_{R-} 100/250/400/630 V V_{R-} 40/100/160/200 V
Category voltage:	$V_C = 0.75 V_{R-}$ at 100°C
Test voltage:	$V_e = 1.6 V_{R-}$
Tangent of loss angle:	D.F. (see page 4)
Insulation resistance:	IR (see page 5)

MARKING

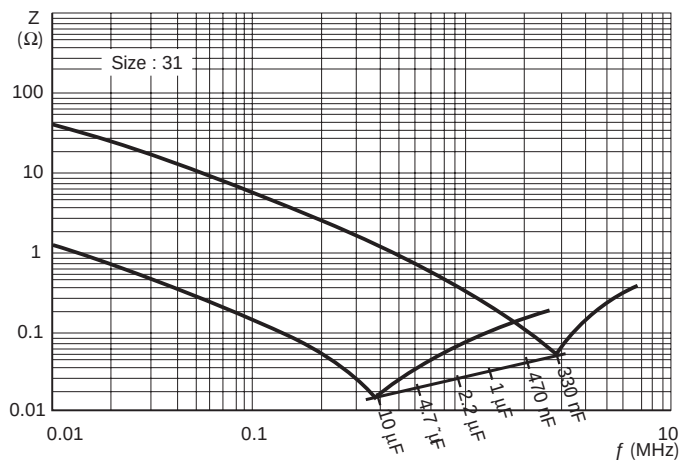
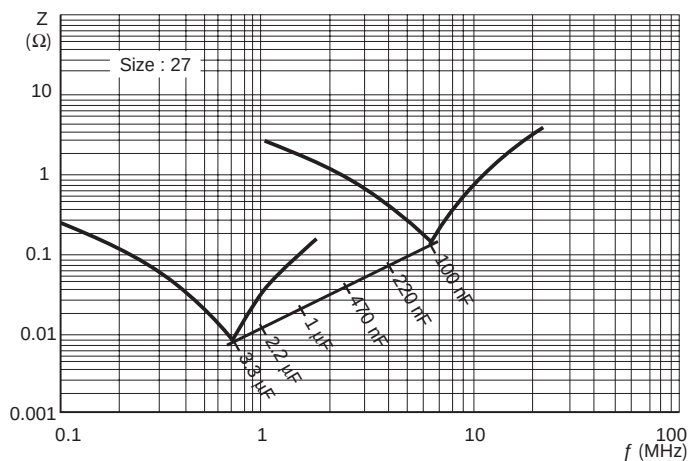
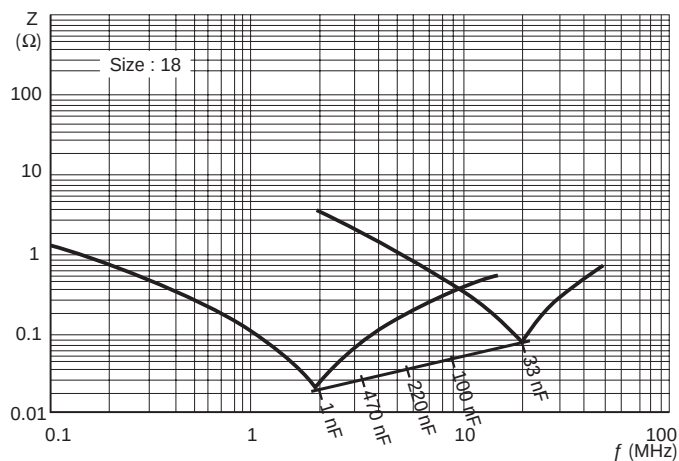
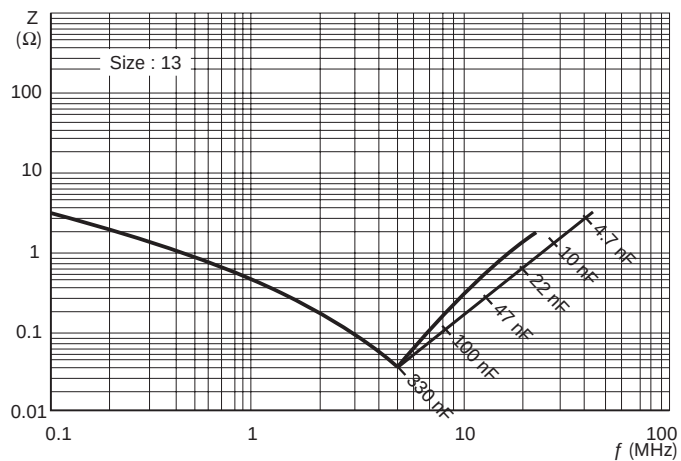
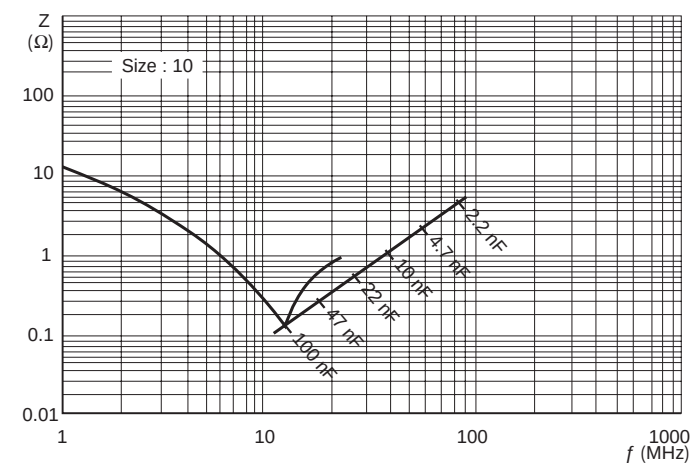
Logo - CPM72B
Capacitance and tolerance (CEI 62 code)
Nominal voltage
Date of manufacture
2 letter code
(year - month) according
to CEI 62
and available space

NOMINAL VOLTAGE (V_R) AND CAPACITANCE VALUES (C_R) DEPENDING ON THE DIMENSIONS

Size Code	DIMENSIONS: millimeters (inches)			Reference			
				S9			
				V_R / V_{R-}			
				100/40	250/100	400/160	630/200
				Range of Capacitance (C_R min. ... max.)			
10	12.0 (0.472)	5.0 (0.197)	0.6 (0.024)	33 nF ... 100 nF	10 nF ... 22 nF	4.7 nF/6.8 nF	1 nF ... 3.3 nF
13	14.5 (0.571)	5.0 (0.197)	0.6 (0.024)	–	33 nF	10 nF/15 nF	4.7 nF/6.8 nF
	14.5 (0.571)	6.25 (0.246)	0.6 (0.024)	150 nF	47 nF/68 nF	22 nF/33 nF	10 nF
	14.5 (0.571)	7.5 (0.295)	0.6 (0.024)	220 nF/330 nF	100 nF	47 nF	15 nF/22 nF
18	20.0 (0.787)	7.5 (0.295)	0.8 (0.031)	470 nF	150 nF/220 nF	68 nF	33 nF
	20.0 (0.787)	8.75 (0.344)	0.8 (0.031)	680 nF	330 nF	100 nF	47 nF
	20.0 (0.787)	10.0 (0.394)	0.8 (0.031)	1 μ F	470 nF	150 nF	68 nF
27	27.5 (1.083)	8.75 (0.344)	0.8 (0.031)	–	–	220 nF	100 nF
	27.5 (1.083)	10.0 (0.394)	0.8 (0.031)	1.5 μ F	680 nF	330 nF	150 nF
	27.5 (1.083)	11.25 (0.443)	0.8 (0.031)	2.2 μ F	1 μ F	–	–
	27.5 (1.083)	12.5 (0.492)	0.8 (0.031)	3.3 μ F	–	470 nF	220 nF
31	33.0 (1.299)	12.5 (0.492)	0.8 (0.031)	–	1.5 μ F	680 nF	330 nF
	33.0 (1.299)	13.5 (0.531)	0.8 (0.031)	4.7 μ F	2.2 μ F	–	–
	33.0 (1.299)	15.0 (0.591)	0.8 (0.031)	–	–	1 μ F	470 nF
	33.0 (1.299)	16.5 (0.650)	0.8 (0.031)	6.8 μ F	3.3 μ F	–	–
	33.0 (1.299)	17.5 (0.689)	0.8 (0.031)	–	–	1.5 μ F	–
	33.0 (1.299)	18.75 (0.738)	0.8 (0.031)	–	–	–	680 nF
	33.0 (1.299)	20.0 (0.787)	0.8 (0.031)	10 μ F	4.7 μ F	–	–
	33.0 (1.299)	21.25 (0.837)	0.8 (0.031)	–	–	2.2 μ F	1 μ F

CHARACTERISTIC CURVES

Influence of the frequency on the impedance (room temperature).



Bulk	M.O.Q. = 200
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millimeters (inches)			
Tape & Reel	Ø capacitor	Quantities	Pitch
Suffix: GA & GB	< 4.0 (0.0 < 0.157)	1800	10.0 (0.394)
	4 < Ø ≤ 6 (0.161 < Ø ≤ 0.236)	1200	10.0 (0.394)
	6 < Ø ≤ 8 (0.240 < Ø ≤ 0.315)	1000	10.0 (0.394)
	8 < Ø ≤ 9 (0.319 < Ø ≤ 0.354)	800	10.0 (0.394)
Suffix: GA	9 < Ø ≤ 14.5 (0.358 < Ø ≤ 0.571)	300	20.0 (0.787)

Suffix	D	E (ext)
GA	360 (14.173)	90 (3.543)
GB	360 (14.173)	79 (3.110)

