

N1

Monophase RC unit



Main applications

Elimination of sparks and transient phenomena in switching circuits, radio interference suppression, thyristors protection in low power applications

Coating

Solvent resistant plastic case (UL 94 V-1 minimum) with resin sealing (UL 94 V-0); flame retardant execution

Construction

The capacitor is made with extended metallized film (refer to general technical information). The capacitor and the resistor are connected in series

Terminals

Tinned copper wire; flexible tinned copper insulated wire or stranded insulated copper wire

Terminals type code

Tinned wire = L; stranded insulated copper wire = M; Insulated tinned copper wire = C

Reference standard

IEC60068, IEC60384-14, RoHS compliant

Climatic category

55/100/56 (IEC 60068/1), FMD (DIN 40040)

Operating temperature range

-55°...+100°C

Rated capacitance (Cr)

0,1µF to 1µF. Other values available upon request

Capacitance tolerance (at 1kHz)

±10% (code=K), ±20% (code=M). Other tolerances upon request

Rated resistance (Rr)

≥10Ω, values in accordance with IEC 63 norm. E6 series

Power rating of resistor

½ W, other values available upon request

Rated DC voltage (Ur)

250, 400, 630 Vdc (superimposed ac component peak value included)

Rated AC voltage 50+60Hz

160, 200, 250 Vac (sinusoidal)

Category voltage (Uc)

Uc=Ur at +85°C; Uc=0,8xUr at +100°C

Temperature derated voltage

For +85°C < T ≤ +100°C, Ur must be decreased 1,25% for every °C exceeding +85°C

Insulation resistance (IR)

When measured between terminals, at 25±°C, after 1 minute of electrification at 100Vdc :

IR ≥ 30000MΩ for Cr ≤ 0,33µF, IR ≥ 10000s for Cr > 0,33µF

Test voltage between terminals (Ut)

1,6 xUr (DC) applied for 2s at 25±5°C (1 minute for type test)

Test voltage between terminals and case (Utc)

2,5kV 50+60Hz applied for 2 sec. at 25±5°C

Resistance code:

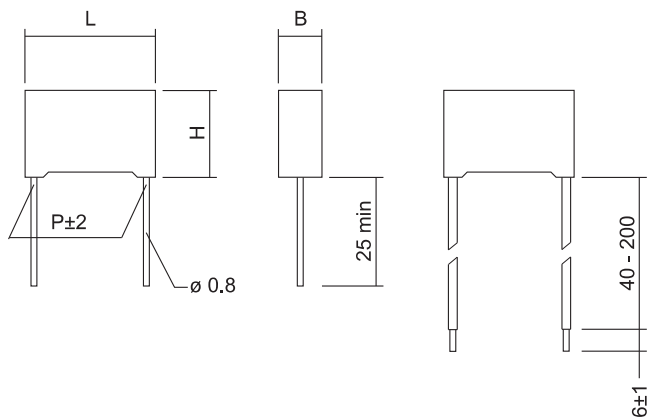
The four digits indicating the resistance code are used as follows:

1st digit = power of resistor code: A=1/4W, B= 1/2W (std.), C= 1W, D= 2W, E= 3W, F= 4W; G= 5W, H=10W, I=9W.

2nd digit = for R≥10Ω indicates the number of zero to be added to the two significant figures of the resistance value expressed in Ω, for 1≤R<10Ω it is = R.

3rd and 4th digits = the two significant figures of the resistance value.

Examples: 47Ω 3W = E047; 220Ω ½W = B122; 4,7Ω 1W = CR47



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Rated voltage		Cap. value (µF)	B	Dimension in mm			ICEL ordering code ⁽¹⁾
Vdc	Vac			H	L	P	
250	160	0,5	8,5	17	26,5	22,5	N13500A*XXXX#&&
250	160	1	10	18,5	26,5	22,5	N14100A*XXXX#&&
400	200	0,25	7	16	26,5	22,5	N13250B*XXXX#&&
400	200	0,5	10	18,5	26,5	22,5	N13250C*XXXX#&&
400	200	1	13	22	32	27,5	N14100B*XXXX#&&
630	250	0,1	7	16	26,5	22,5	N13100C*XXXX#&&
630	250	0,25	10	18,5	26,5	22,5	N13250C*XXXX#&&
630	250	0,5	13	22	32	27,5	N13500C*XXXX#&&

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: K=±10%, M=±20% , the # symbol with the needed leads execution (L,M or C) and the four X digits with the resistance code. && free characters used for possible additional information.

Warning: this specification must be completed with the data given in the "General technical information" chapter