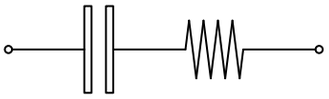
N1

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 (lead-free conductors)

Terminals type code
Tinned wire= L; stranded insulated copper wire= M; Insulated tinned copper wire= C (typical insulated cables length= 150mm)

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
Standard: ½ W (B code); 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

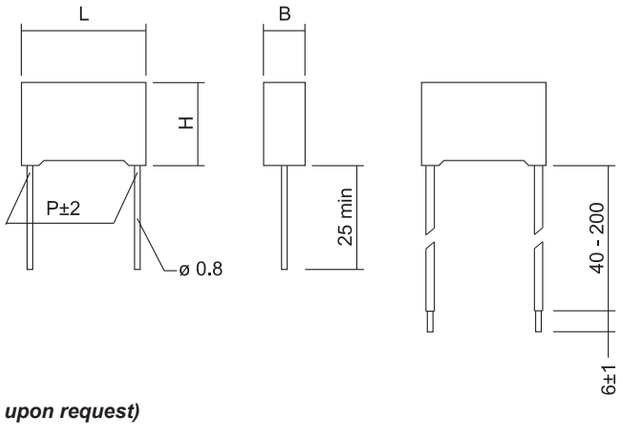
Resistance code:
The four digits indicating the resistance code are used as follows:

1st digit= power of the 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 idicates 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



N1 article table (different values, sizes and executions available upon request)

Rated voltage		Cap.	Dimension in mm				ICEL ordering code(1)
Vdc	Vac	value (µF)	B	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	N13500B*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% (M= std.), the # symbol with the needed leads execution (L,M or C) and the four X digits with the ristance code. && free characters used for possible additional information (as special cables lengths; typical insulated cables length= 150mm).

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