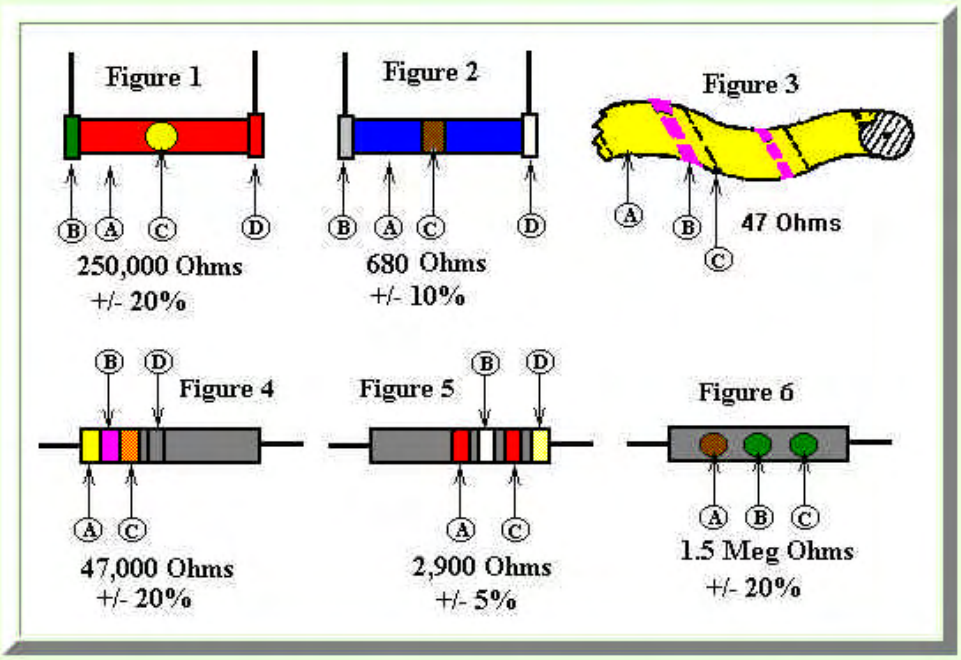
SOCIÉTÉ QUÉBÉCOISE DES COLLECTIONNEURS DE RADIOS ANCIENS

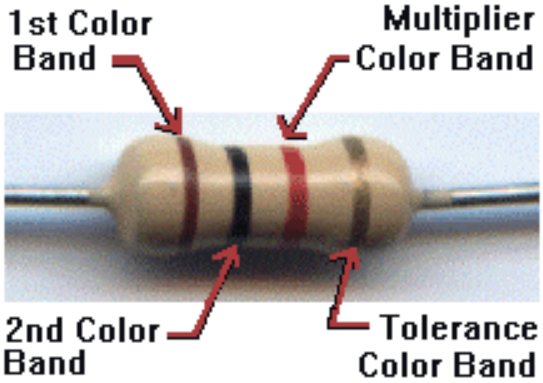
RESISTANCES (CODE RMA)



A First Figure	B Second Figure	C Number of zeros after second figure	D Tolerance (+/-)
Black...0	Black...0	Black...none	Gold.....5%
Brown...1	Brown...1	Brown...1	Silver.....10%
Red.....2	Red.....2	Red.....2	No Color...20%
Orange..3	Orange..3	Orange..3	
Yellow..4	Yellow..4	Yellow..4	
Green...5	Green...5	Green...5	
Blue....6	Blue....6	Blue....6	
Violet..7	Violet..7	Violet..7	
Gray....8	Gray....8	Gray....8	
White...9	White...9	White...9	

22K Ohms
(22000)
5%

RESISTANCES MODERNES



BLACK		0
BROWN		1
RED		2
ORANGE		3
YELLOW		4
GREEN		5
BLUE		6
VIOLET		7
GRAY		8
WHITE		9

Note: how the bands are closer to one end of the resistor than the other.

Resistor is 15000 Ω or 15K, 5%

Resistor is 47x .01Ω or 0.47Ω, 2%

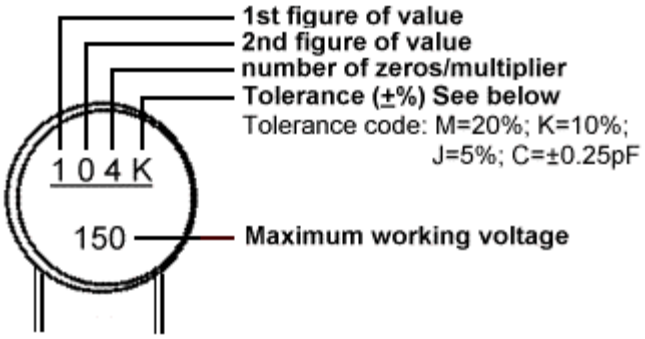
Resistor is 2200000 Ω or 2.2M, 20%

Resistor is 1500 Ω or 1.5K, 5%

SOCIÉTÉ QUÉBÉCOISE DES COLLECTIONNEURS DE RADIOS ANCIENS

CONDENSATEURS CÉRAMIQUE ET MOULÉS (CODE IEC)

LA VALEUR EST CODÉE EN PICOFARAD (pf) OU BIEN INDIQUÉE DIRECTEMENR POUR LES PETITES VALEURS (<100pF). LA TENSION MAXIMALE EST INDIQUÉE EN CLAIR.

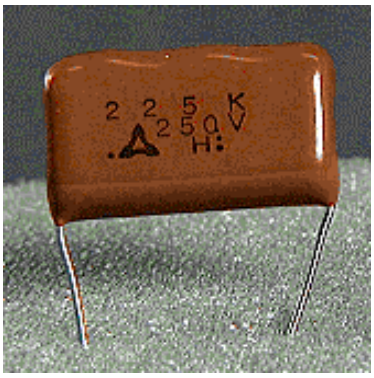


EX : 104K 150

100000pF,±10%

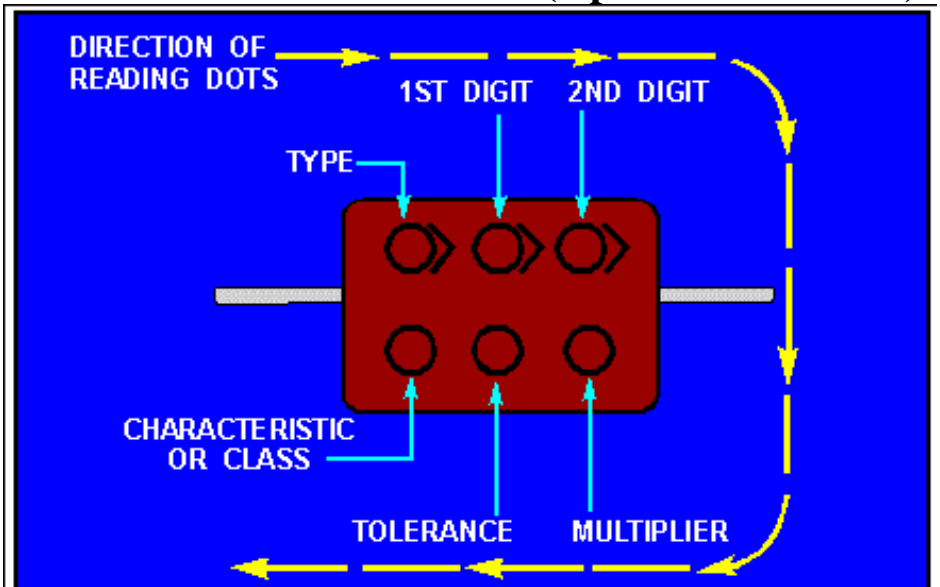
CODE / Marking	uF microfarads	nF nanofarads	pF picofarads
1RO	0.000001	0.001	1
100	0.00001	0.01	10
101	0.0001	0.1	100
102	0.001	1	1,000
103	0.01	10	10,000
104	0.1	100	100,000
105	1	1,000	1,000,000
106	10	10,000	10,000,000
107	100	100000	100,000,000

Tolorance Table	
C	+/- 0.25pF
D	+/- 0.5pF
F	1%
G	2%
J	5%
K	10%
M	20%
Z	+80 -20%



SOCIÉTÉ QUÉBÉCOISE DES COLLECTIONNEURS DE RADIOS ANCIENS

CONDENSATEURS MICA (6 points de couleur)

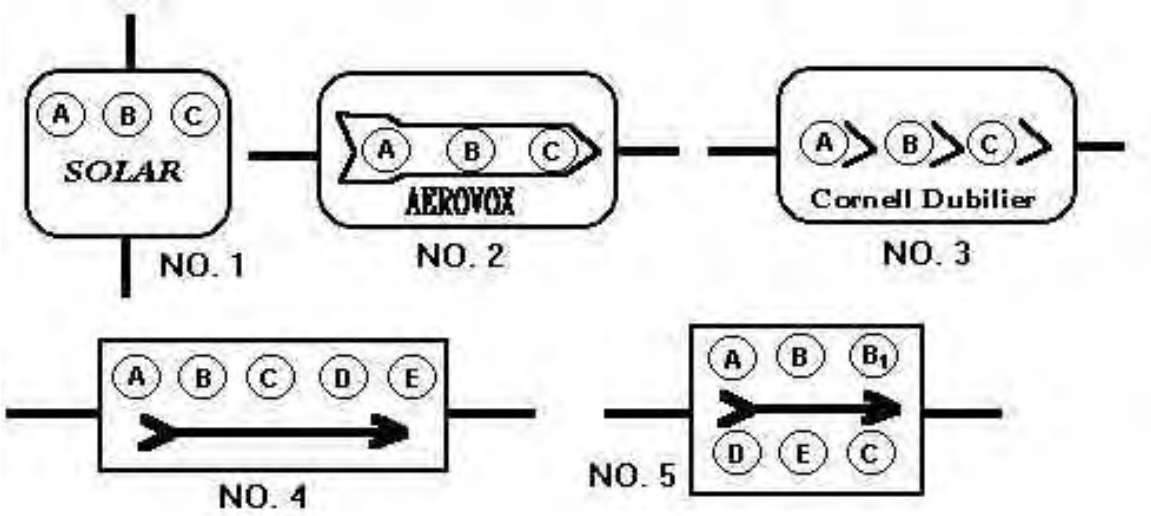


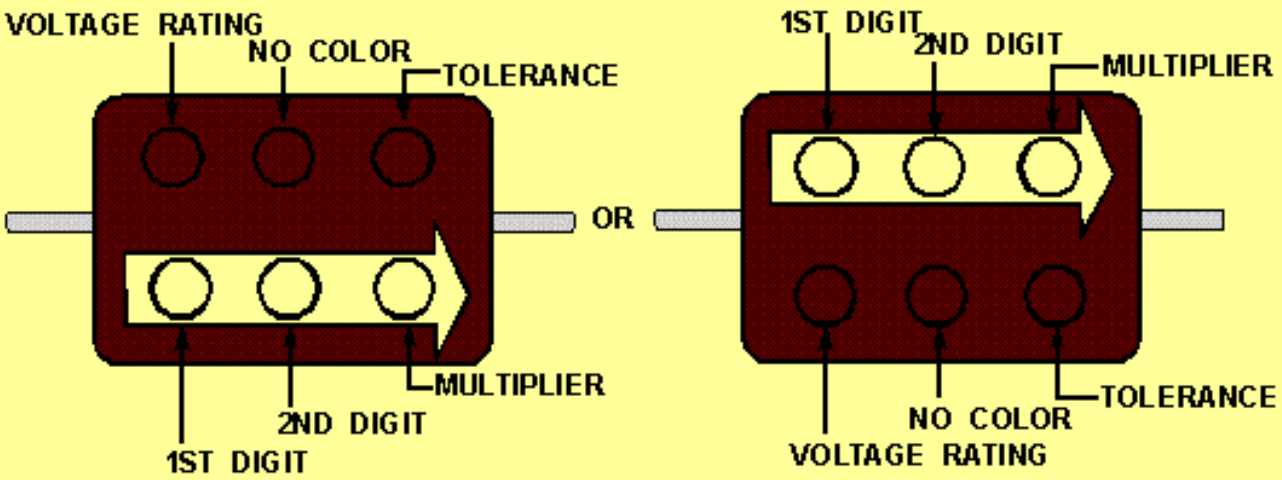
TITLE	COLOR	1ST DIGIT	2ND DIGIT	MULTIPLIER	TOLERANCE (PERCENT)	CHARACTERISTIC OR CLASS
JAN, MICA	BLACK	0	0	1.0	± 20	APPLIED TO
	BROWN	1	1	10		TEMPERATURE
	RED	2	2	100	± 2	COEFFICIENT
	ORANGE	3	3	1,000	± 3	OR METHODS
	YELLOW	4	4	10,000	± 4	OF TESTING
	GREEN	5	5	100,000	± 5	
	BLUE	6	6	1,000,000	± 6	
	VIOLET	7	7	10,000,000	± 7	
	GRAY	8	8	100,000,000	± 8	
EIA, MICA	WHITE	9	9	1,000,000,000	+ 9	
	GOLD			.1		
MOLDED PAPER	SILVER			.01	± 10	
	BODY			.01	± 20	

NOIR BRUN NOIR ROUGE ARGENT

MICA 1 0 00 ±10% => 1000pF,±10%

CONDENSATEURS MICA (3 points de couleur)





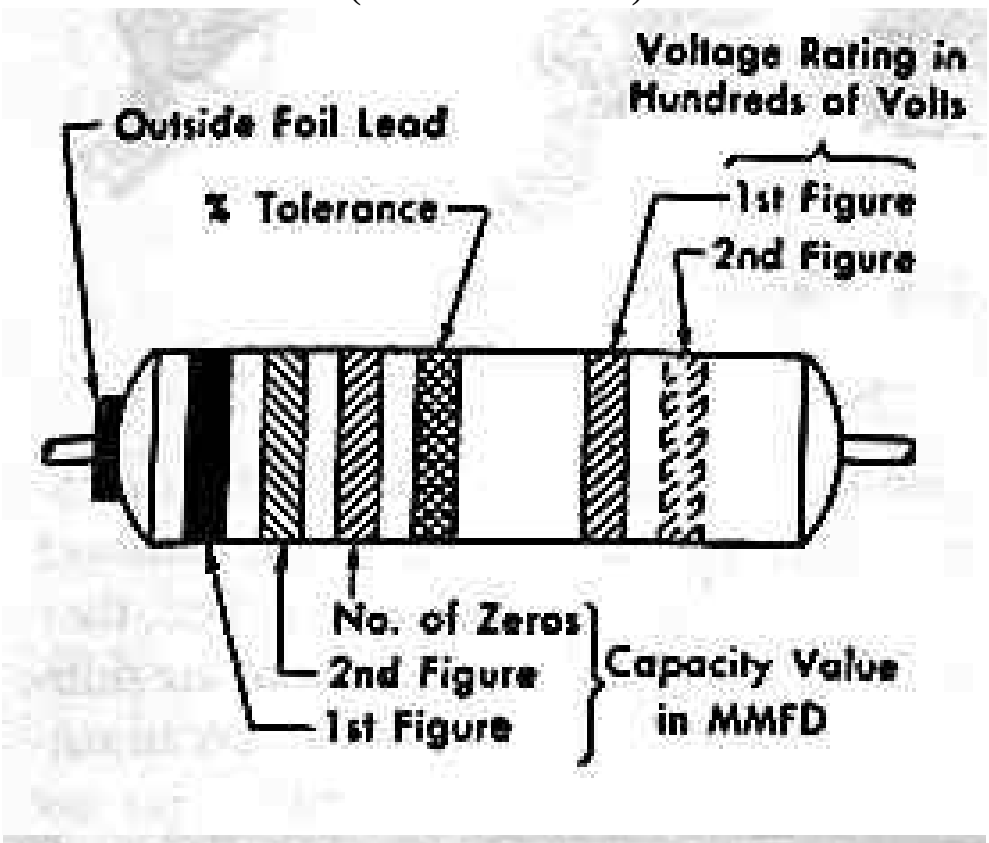
COLOR	1ST DIGIT	2ND DIGIT	MULTIPLIER	TOLERANCE (PERCENT)	VOLTAGE RATING
BLACK	0	0	1.0	± 1	100
BROWN	1	1	10	± 2	200
RED	2	2	100	± 3	300
ORANGE	3	3	1,000	± 4	400
YELLOW	4	4	10,000	± 5	500
GREEN	5	5	100,000	± 6	600
BLUE	6	6	1,000,000	± 7	700
VIOLET	7	7	10,000,000	± 8	800
GRAY	8	8	100,000,000	± 9	900
WHITE	9	9	1,000,000,000		1000
GOLD			.1	± 10	2000
SILVER			.01	± 20	
BODY					

*WHERE NO COLOR IS INDICATED, THE VOLTAGE RATING MAY BE AS LOW AS 300 VOLTS.

SOCIÉTÉ QUÉBÉCOISE DES COLLECTIONNEURS DE RADIOS ANCIENS

CONDENSATEURS MOULÉS

(Black Beauties)



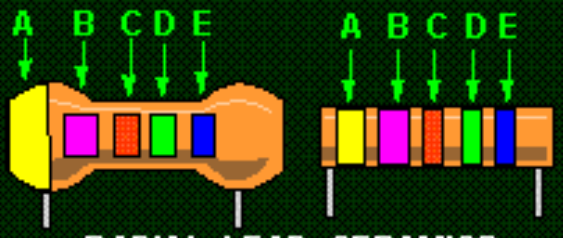
Example. 0.0047 MFD, 1,600 V D-C, ± 20%

Band	Color Code	
1st	Yellow	4
2nd	Violet	7
3rd	Red	00
4th	Black	± 20%
5th	Brown	1,600 V
6th	Blue	

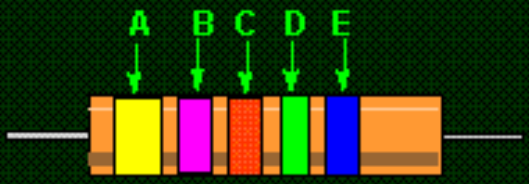
Color	Significant Figure	No. of Zeros	Capacity Tolerance
Black	0		± 20%
Brown	1	0	
Red	2	00	
Orange	3	000	± 30%
Yellow	4	0000	± 40%
Green	5	00000	± 5%
Blue	6	000000	
Violet	7		
Gray	8		
White	9		± 10%

CONDENSATEURS CÉRAMIQUES

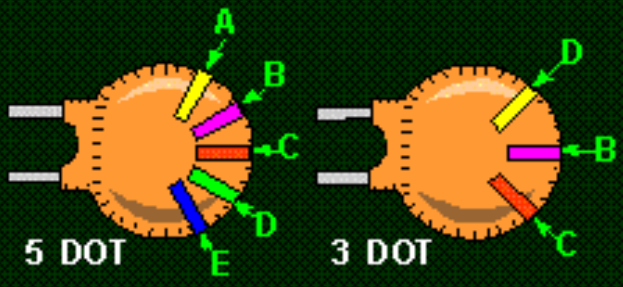
A - TEMPERATURE COEFFICIENT
B - 1ST DIGIT
C - 2ND DIGIT
D - MULTIPLIER
E - TOLERANCE



RADIAL LEAD CERAMICS



AXIAL LEAD CERAMIC



CERAMIC DISC CAPACITOR MARKING

COLOR	1ST DIGIT	2ND DIGIT	MULTIPLIER	TOLERANCE		TEMPERATURE COEFFICIENT*
				MORE THAN 10 pf (IN PERCENT)	LESS THAN 10 pf (IN pf)	
BLACK	0	0	1.0	±20	±2.0	0
BROWN	1	1	10	± 1		-30
RED	2	2	100	± 2		-80
ORANGE	3	3	1,000			-150
YELLOW	4	4	10,000			-220
GREEN	5	5		± 5	±0.5	-330
BLUE	6	6				-470
VIOLET	7	7				-750
GRAY	8	8	.01		±0.25	+30
WHITE	9	9	.1	±10	±1.0	+120 TO -750 (EIA)
						+500 TO -330 (JAN)
SILVER						+100 (JAN)
GOLD						BYPASS OR COUPLING

*PARTS PER MILLION PER DEGREE CENTIGRADE.

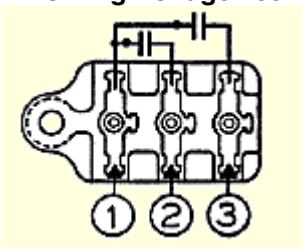
SOCIÉTÉ QUÉBÉCOISE DES COLLECTIONNEURS DE RADIOS ANCIENS

PHILCO « BAKELITE BLOCKS »

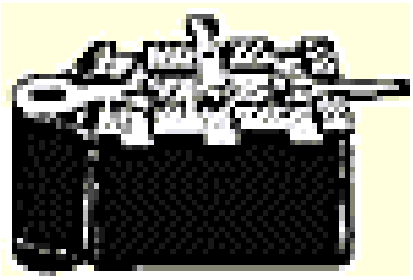
LA CONSTRUCTION INTERNE VARIE SELON LE NUMÉRO PHILCO.
CONSULTER : http://www.philcorepairbench.com/bblokcap.htm

UNIVERSAL TYPE 3615 (.05 Mfd.)

Working Voltage 400



Part No.	No. of Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
3615-ODG	2	.05	.05
3615-ODU	1	.05	.05
3615-OSG	1	.05	- - -
3615-OSU	1	.05	- - -
3615-XG	2	.05	.0014
3615-YU	2	.05	.03



NOTES DE RÉFÉ.RENCE, ATELIER SQCRA 13 DÉCEMBRE 2004-12-13
ERIC BELANGER

SOCIÉTÉ QUÉBÉCOISE DES COLLECTIONNEURS DE RADIOS ANCIENS

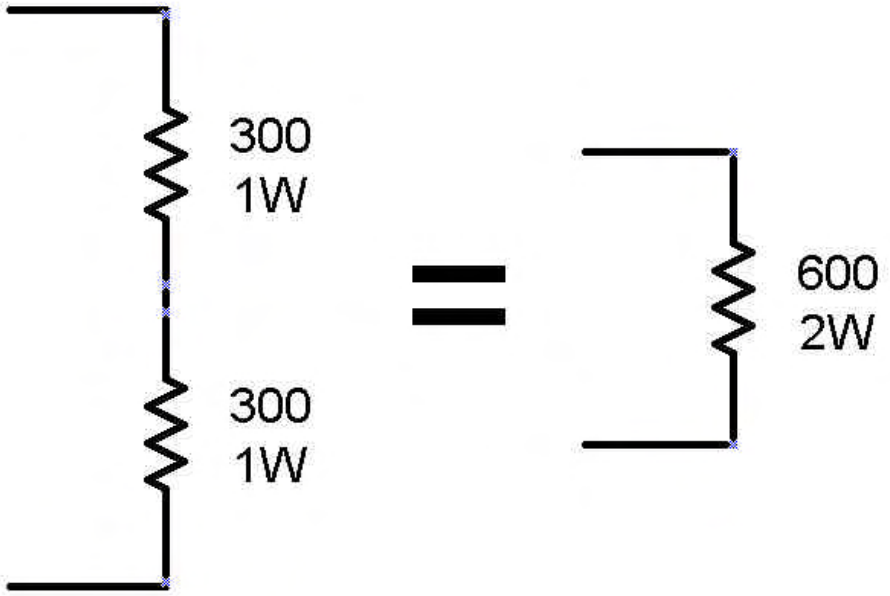
COMBINAISON DE RÉSISTANCES

MONTAGE SÉRIE:

?? LES VALEURS S'ADITIONNENT

?? LA PUISSANCE MAXIMALE S'ADITIONNENT

**SI LES RÉSISTANCES NE SONT PAS IDENTIQUES,
ATTENTION À LA RÉPARTITION DE LA PUISSANCE**

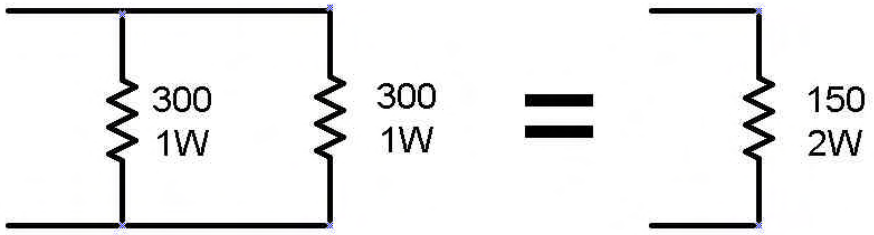


$$R_{Total} = R_1 + R_2 + ... + R_n$$

MONTAGE PARALLÈLE:

?? LA RESISTANCE EST RÉDUITE

?? LA PUISSANCE MAXIMALE S'ADITIONNENT



$$R_{eq} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + ... \frac{1}{R_n}}$$

SOCIÉTÉ QUÉBÉCOISE DES COLLECTIONNEURS DE RADIOS ANCIENS

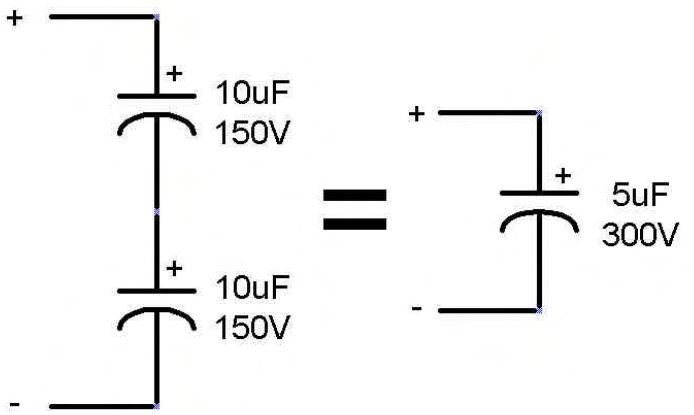
COMBINAISON DE CONDENSATEURS

MONTAGE SÉRIE:

?? LA CAPACITÉ EST RÉDUITE

?? LES TENSION MAXIMALE S'ADDITIONNENT

SI LES CAPACITÉS NE SONT PAS IDENTIQUES, ATTENTION À LA RÉPARTITION DE LA TENSION

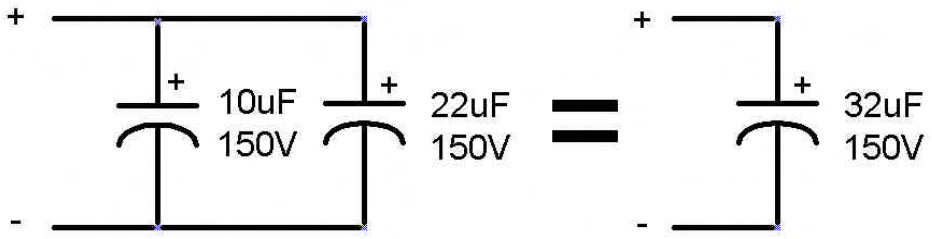


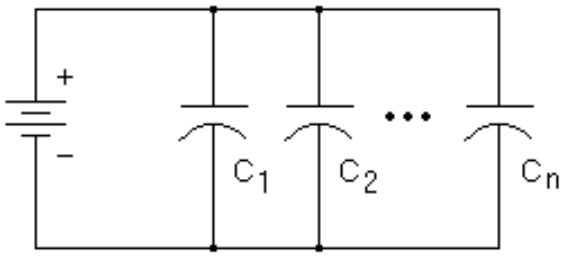
$$C_{total} = \frac{1}{\frac{1}{C_1} + \frac{1}{C_2} + \ldots \frac{1}{C_n}}$$

MONTAGE PARALLÈLE:

?? LA CAPACITÉ S'ADDITIONNE

?? LES TENSION MAXIMALE DEMEURE LA MÊME

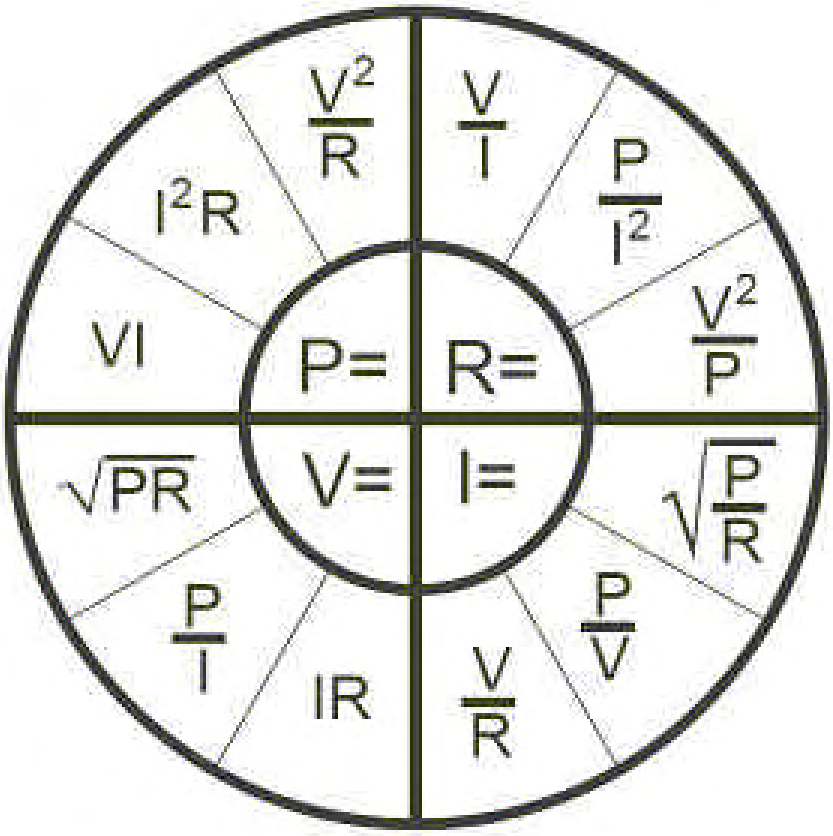




$$C_{Total} = C_1 + C_2 + \ldots + C_n$$

SOCIÉTÉ QUÉBÉCOISE DES COLLECTIONNEURS DE RADIOS ANCIENS

LA LOI D'OHM



P = PUISSANCE (WATTS [W])
V = TENSION (VOLTS [V])
I = COURANT (AMPÈRES [A])
R = RÉSISTANCE (OHMS [O])

CE QU'ON CHERCHE :
INTÉRIEUR DU CERCLE

CE QU'ON CONNAIT :
EXTÉRIEUR DU CERCLE

EX : P = VI, V = P / I