

vivo Y75 · mmaggi_143



Que: - Emplain the colour coding of the

the colour coole values for denoting the tolerance railing of veristors are given as:

Brown = 1 %.

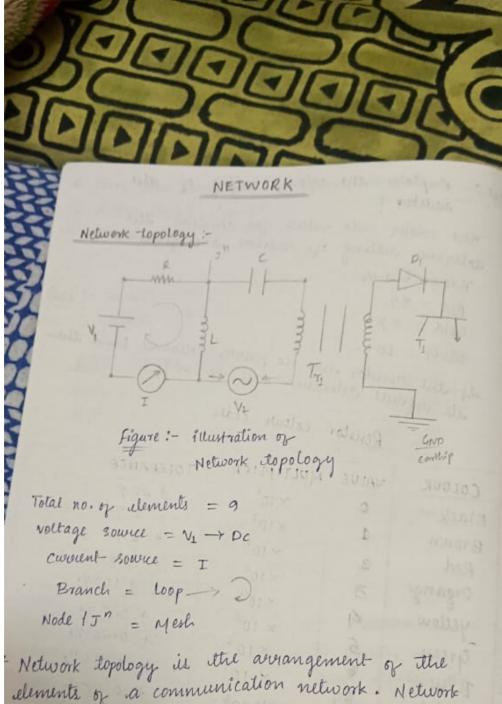
Red = 2%

Gold = 5%.

If the resistor has no journth tolerance band then its default tolerance will be 20%.

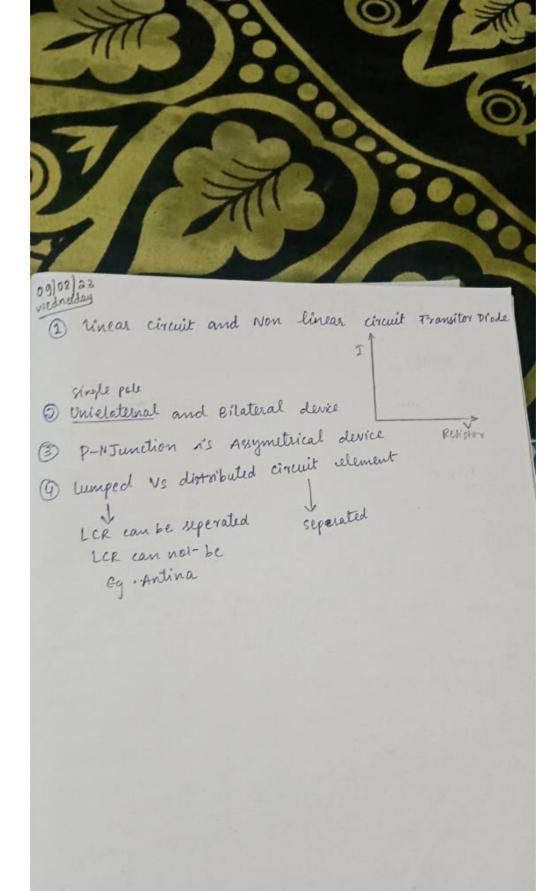
Resistor colour codes

COLOUR	VALUE	MULTIPLIER	TOLERANCE
Black	0	×10°	+ 20%
Brown	1	×101	± 1 %
Red	2	× 102	± 2 %
organge		× 10 ³	+ 3%
yellow	4	× 104	-0, +100%
		× 105	+ 0.5%
Green	5	×10 6	+ 0.25%
Blu	6	× 10 [‡]	Ŧ 0.10%
violet	1000	× 108	± 0.05%
gray	8	×109	± 10%
, 0	9	100	1 5%
white		X 10 ⁻¹	
Gold	112	× 10 ⁻²	+ 10 %
silver	-	7 10	menti



Network topology is the avrangement of the elements of a communication network. Network topology can be used to define or describe the averangement of various types of telecommunication networks, including command and control radio etworks, industrial fieldbusses and computer elevents.







* There are two types of circuit elements (i) Active circuit element

(11) passive circuit element

Que: - Write short note on active and passive circuit element ?

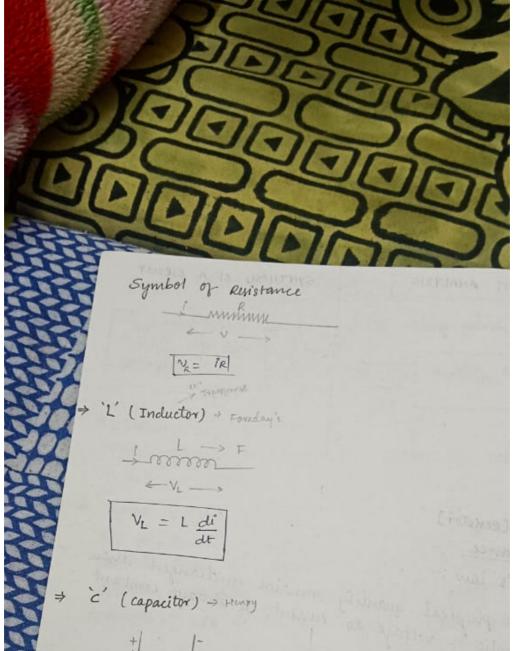
Active circuit element :-

Active circuit elements are component that regulre an external power source to operate. they can generate or amplify energy, as well as control the flow of current or voltage.

Example: - Transistors, operational anaplipiers, and integrated circuits.

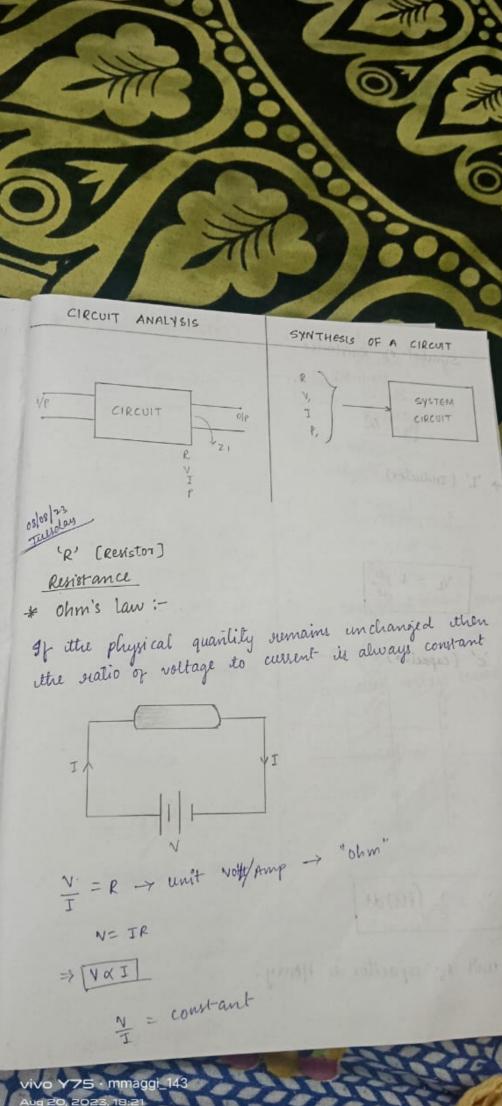
passive circuit element:

A passive circuit element is an electrical component that does not generate power, but instead dissipates, stores, and releases is Example: - Resistances, capacitors and coil. these components are labelted in circuit diagrams as Rs, Cs and Is.



 $V_c = \frac{1}{c} \int i(t) dt$

unit of capacitor is Henry.





BASIC CIRCUIT ELEMENT

A circuit is a conducting parth through which either current you or intended ito you.

Example:- wive, switch, transformer, resistor, capacitor setc.

- * CIRCUIT ELEMENT
 The elements used to design circuit is called circuit elements.
- * BASIC CIRCUIT ELEMENTS

 -the functionential circuit elements which are used in all types of electrical and electronics devices is known as basic circuit elements.

 Example: LCR is known as Basic circuit elements.

