Question 18 (5 marks)

Resistor Colour Code Chart

Colour	Value	Multiplying factor	Tolerance
Black	0	1	_
Brown	1	10	1%
Red	2	100	2%
Orange	3	1 000	-
Yellow	4	10 000	_
Green	5	100 000	0.5%
Blue	6	1 000 000	0.25%
Violet	7	_	0.1%
Grey	8	_	
White	9	_	_
Gold	_	0.1	5%
Silver	_	0.01	10%

(a) Use the Resistor Colour Code Chart to find the colour code of the resistor.

Value	Tolerance	Band 1	Band 2	Band 3	Band 4
680	1%	Blue	Grey	Brown	Brown

(b) Determine the maximum value of the following resistor, showing all working.

Band 3

Band 2

Band 1

3

Red	Black	Blue	Gold				
Red = 2 Black = 0 Blue = 106							
Gold =		****					
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20	M-02 +	5%	******************				
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Band 4