

Meeting Jaap Lourens from SENTECH, gave a very interesting talk on interference problems he has had to deal with. He also told us about the new digital TV coming our way which was most enlightening. Some interesting info is available on the web at the addresses below.

The next meeting will held on 4 April 2009 at the usual venue. A talk on "WiFi in the Radio Amateur Environment"

http://www2.rohde-schwarz.com/en/products/broadcasting/tv_transmitters/tv_transmitter_power/

http://en.wikipedia.org/wiki/Digital_terrestrial_television

http://en.wikipedia.org/wiki/H.264/MPEG-4_AVC

http://www.digitaltv.com.au/why.html

SSC Meeting There is no meeting this month. The next meeting will on Sunday 12 April 2009 at the home of Rex & Ingrid. It will be a bring and braai. Please bring along all the necessary

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The mother and father had just given their teenage daughter family-car privileges. On Saturday night she returned home very late from a party.

The next morning her father went out to the driveway to get the newspaper and came back into the house frowning. At 11:30 AM the girl sleepily walked into the kitchen, and her father asked her, "Sweetheart, what time did you get in last night?"

"Not too late, Dad." she replied nervously.

Dead-panned, her father said, "Then, my precious one, I'll have to talk with the paperboy about putting my paper under the front tire of the car."

Two boys were arguing when the teacher entered the room. The teacher asked, "Why are you arguing?"

One boy answered, "We found a ten-dollar bill and decided to give it to whoever tells the biggest lie."

"You should be ashamed of yourselves," said the teacher. "When I was your age, I didn't even know what a lie was."

The boys gave the ten dollars to the teacher.

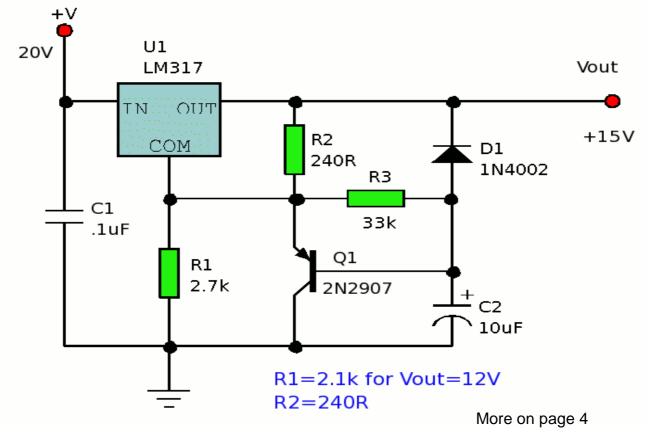
Decibels - Decibels (dB) are commonly used to describe gain or loss in circuits. The number of decibels is found from:

Gain in $dB = 10^{*}\log(\text{gain factor})$ or

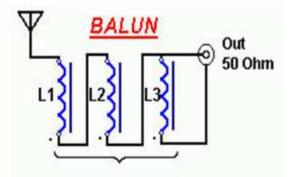
In some situations this is more complicated than using gain or loss factors. But in many situations, decibels are simpler. For example, suppose 10 feet of cable loses 1 dB of signal. To figure the loss in a longer cable, just add 1 dB for every 10 feet. In general, decibels let you add or subtract instead of multiply or divide. There are some special numbers you might want to memorize:

20 dB = gain factor of 100 10 dB = gain factor of 10 **3 dB = gain factor of 2 (actually 1.995)** 0 dB = no gain or loss -1 dB = a 20% loss of signal -3 dB = a 50% loss of signal -10 dB = a 90% loss of signal

Soft start for power supplies Two soft start power supplies. The output voltage slowly increases to the desired output.



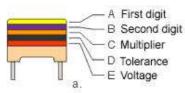
A longwire balun

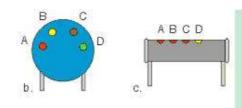


A good receiving antenna system

You will need three lengths of insulated wire of 0.8mm diameter and between 50 to 60cm long depending on the size of the torid core. Besure that you cover the core evenly and that the wires are close to each other. Connect the wires as per the diagram. Install in a weather proof container of you choice.

+	A First digit B Second digit C Multiplier D Voltage 470 μF/20 V	C + B 2,2 μF/6,3V		
COLOR	DIGIT	MULTIPLIER	VOLTAGE	
Black	0	×1μF	107	
Brown	1	× 10 µF		
Red	2	х 100 µF		
Orange	3			
Yellow	4		6.3V	
Green	5		16V	
Blue	6		20V	
Violet	7			
Grey	8	×.01μF	25V	
White	9	Х.1 µF	37	
Pink			35V	





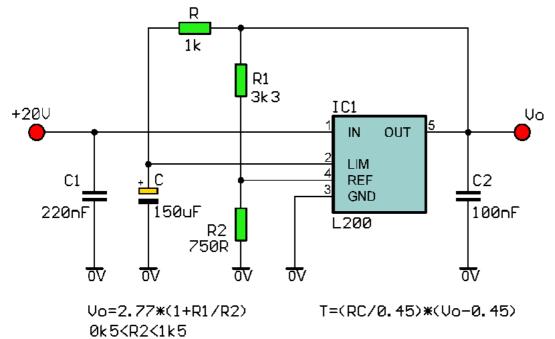


C=47.1nF=47nF/20%/250V

COLOR	DIGIT	MULTIPLIER	TOLERANCE	VOLTAGE
Black	0	x 1 pF	±20%	
Brown	. 1	x 10 pF	±1%	
Red	2	x 100 pF	±2%	250V
Orange	3	x 1 nF	±2.5%	
Yellow	4	x 10 nF		400V
Green	5	x 100 nF	±5%	
Blue	6	×1µF		
Violet	7	× 10 µF		
Grey	8	х 100 µF		
White	9	х 1000 µF	±10%	



C=22.100pF=2200pF/5%



The output voltage rises slowly and reaches 15 V in 5 seconds.

In order to perform this soft-start function, the LM317 voltage regulator IC requires an external universal PNP transistor and the L200 uses its internal comparator (pin 2).

After switch-on, the rising voltage on the positive side of the charging electrolytic capacitor slowly turns the (initially conducting) transistor off, thus raising the voltage (relative to ground) on the adjustment pin of the LM317. In the L200 circuit, the corresponding electrolytic capacitor's rising voltage gradually relaxes the current-regulation loop inside the L200.

CLUB INFORMATION							
Postal address PO Box 19937 Sunward Park 1470			Monthly meeting venue				
Website <u>http://www.qsl.net/zs6hvb/</u> e-mail zs6hvb@gmail.com Repeater 145.1875 MHz input - 145.7875 MHZ output Linked to 70 cm - 438.850 MHz			Witwatersrand Rifles HQ Cnr Barlow and Cavaleros Str Industries West Germiston				
Bulletins Sunday morning - 145.7875 MHz & 7062 KHz @ 08h45. First Saturday of the month at 14:30 Relay - 80M - 3662KHz Committee							
			/				
Chairman	Frank van Wensveen	ZS6TM	√ 082-294-2648				
Vice Chairman	Frank Mercier	ZS6MEI	R 011-845-1146				
Secretary/Treasurer	Berridge Emmett	ZS6BFL	. 011-893-1291				
Assistant Secretary	Marianne Treyvellan	ZR6JM1	Г 084-403-3355				
Repeater/Packet/Technical	Ton van Dijk	ZS6AN/	A 011-432-5494				
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Club bank details

First National Bank - Current Account 62116557309 Branch Code 201209 - Sunward Park