



ZS6HVB

Affiliated to the
SARL

SHACKNEWS

HIGHVELD AMATEUR RADIO CLUB

First Quarter 2016

We're on



COMMUNICATION IS THE NAME OF THE GAME

The first meeting of the year will take place on Saturday 12th March at the home of Berridge & Sandra. It is also the social get together.

To be discussed are future meetings and where.
Update on the repeater situation.

Remember the entrance is through the security gate in Huckleberry road.
After the gate at T junction go left, next road left and then first right into Nektaar road.

Various vehicle / shop signs

On a Plumber's truck: "We repair what your husband fixed."

On another Plumber's truck: "Don't sleep with a drip. Call your plumber."

On an Electrician's truck: "Let us remove your shorts."

On a Maternity Room door: "Push. Push. Push."

At a Car Dealership: "The best way to get back on your feet - miss a car payment."

In a Veterinarian's waiting room: "Be back in 5 minutes. Sit! Stay!"

In a Restaurant window: .. "Don't stand there and be hungry; Come on in and get fed up."

In the front yard of a Funeral Home: "Drive carefully. We'll wait."

A sign at a radiator repair workshop:
"Best place in town to take a leak."

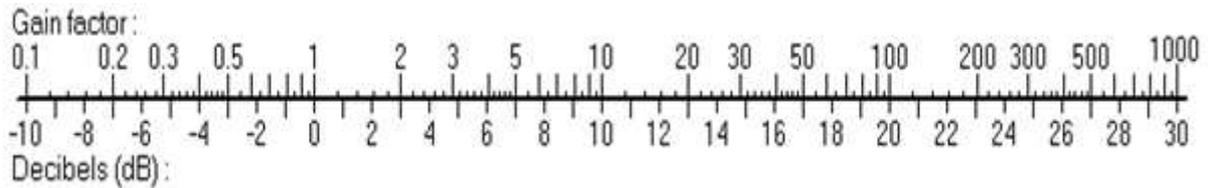
IF YOU ARE HAVING PROBLEMS WITH SPYWARE/MALWARE ETC. IT MAY BE WORTH TO HAVE A LOOK AT:

WWW.SPYWAREJEDI.COM AND WWW.HELPDESKJEDI.COM

Decibels

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

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



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

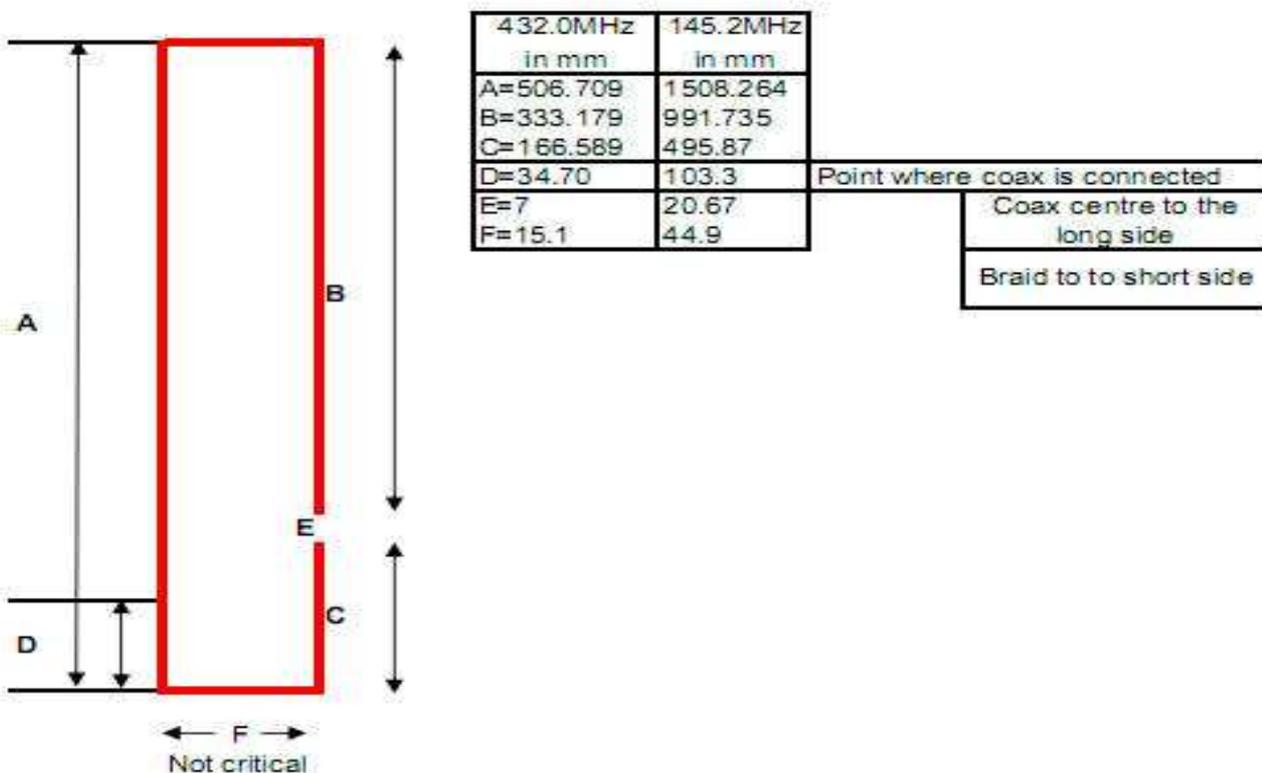
-1 dB = a 20% loss of signal

-3 dB = a 50% loss of signal

-10 dB = a 90% loss of signal



Build a SlimJim



Transistor Identification/Info

PRO-ELECTRON
Semiconductors

e.g. **B C 1 0 7 -**

MATERIAL	CONSTRUCTION	SERIAL NUMBER	RANGE NUMBER
A Germanium B Silicon C Compound materials such as gallium arsenide R Compound materials such as cadmium sulphide	A Signal diode B Variable capacitance diode C Small AF transistor D AF power transistor E Tunnel diode F Small RF transistor G Multiple device L RF power transistor N Photo-coupler P Radiation sensitive device (Photodiode etc.) Q Radiation generating device (l.e.d.) R Small thyristor S Small switching transistor T Power thyristor U Power switching transistor X Multiple diode (e.g. Varactor or step recovery diode) Y Rectifying, boost or efficiency diode Z Voltage regulator diode	Devices for domestic use— 3 figures Devices for industrial use— one letter (Z,Y,X, etc) followed by 2 figures	Additional information covering a range of variants of a basic type Rectifier Diodes & Thyristors: The group of figures indicates the p.i.v. rating The final letter R denotes a reverse polarity (stud anode) version. (n.b. Thyristors, by convention, are normally stud anode, and therefore end in R) Voltage Regulator Diodes: The first letter gives the voltage tolerance: A = 1% D = 10% B = 2% E = 20% C = 5% The group of figures indicates the working voltage, the letter V being used to denote the decimal point. The final letter R denotes a reverse polarity (stud anode) version

IC Identification/info

PRO-ELECTRON
Integrated Circuits

e.g. **T B A 5 7 0 A Q**

SOLITARY CIRCUITS	DIGITAL FAMILY CCTS	MICROPROCESSORS	TEMPERATURE	SERIAL NUMBER	SHAPE	MATERIAL	ONE-LETTER SUFFIX	TWO-LETTER SUFFIX
S Digital T Analogue U Mixed	TWO FAMILY IDENTITY LETTERS	MA Microcomputer or Central Processing Unit MB Slice Processor MD Correlated Memories ME Other correlated circuits (interface, clock, peripheral controller, etc.)	A Not specified B 0 to +70°C C -55 to +125°C D -25 to +70°C E -25 to +85°C F -40 to +85°C G -55 to +85°C	A 4-digit number or A Serial Number (combination of figures and letters)	C Cylindrical D Ceramic d.i.l. F Flat pack P Plastics d.i.l. Q Quad-in-line U Uncased chip Z Customised	C Metal-ceramic G Glass-ceramic (cerdip) M Metal P Plastics		
*Except for Z, the meanings given are recommended only								

Remember these ?



AVO Ltd.



Eimac



General Radio Company
Now GenRad



International General
Electric of New York



International Rectifier



RCA



Picture taken at year end do at Rex's farm.

Tnx Sid ZS6SID

Willie friend of Rex, Errol ZS6KED, Rex ZS6REX, Jim ZS6JMB, Berridge ZS6BFL, front Hugh ZS6HMB

Club Information

Postal address PO Box 19937 Sunward Park 1470

Website <http://www.zs6hvb.za.net>

Back Issues of Shacknews available on the club website

e-mail zs6hvb@zs6hvb.za.net

Repeater 145.1875 MHz input - 145.7875 MHz output

Bulletins Sunday morning - 145.7875 MHz & 7162 KHz @ 08h45.

Monthly meeting venue

To be decided

3rd Saturday of the month at 14:30

Committee

Chairman	Vacant		
Secretary/Treasurer	Berridge Emmett	ZS6BFL	011-893-1291
Shacknews Editor	Berridge Emmett	ZS6BFL	011-893-1291
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