



SHACKNEWS

HIGHVELD AMATEUR RADIO CLUB

JANUARY 2009

COMMUNICATION IS THE NAME OF THE GAME

Meeting There is no meeting this month

The next meeting will held on 7 February 2009 at the usual venue. Ton will give a talk on repeaters and what makes them work. Also up for discussion will be cross banding 2M and 70cm.

A speaker has been arranged for the March meeting thanks to Ray ZS6QM. More in the next issue of SN.

SSC Meeting This will take place on Saturday 14 February. As yet there is no venue - Any volunteers?

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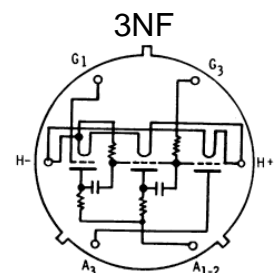
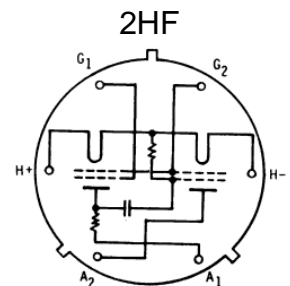
Valve history

Loewe 3NF Multi-valve - The first integrated circuit

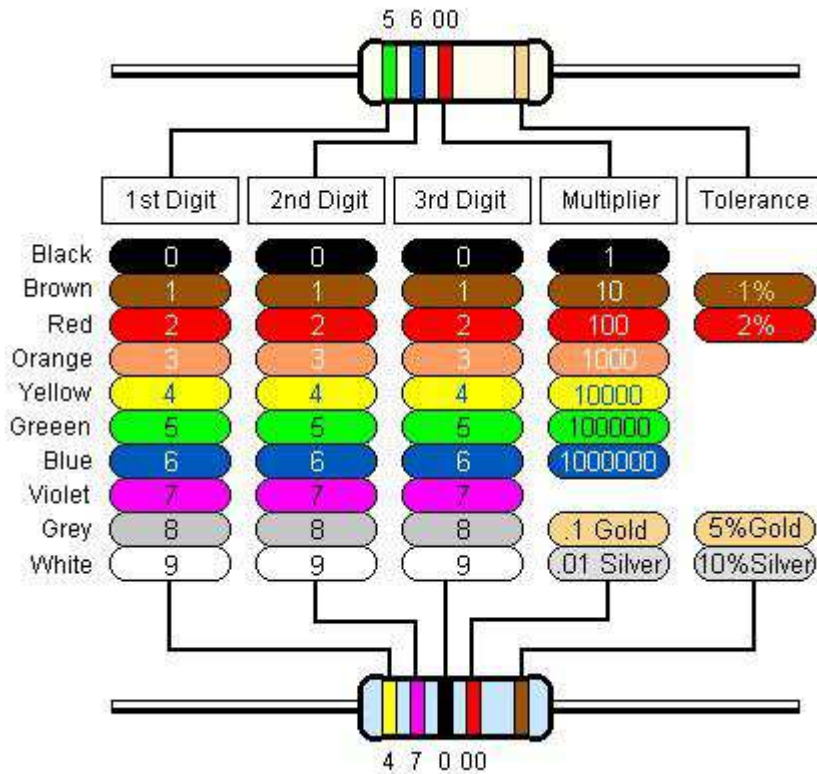
One of the most fascinating valves you will ever see, the Loewe 3NF incorporates three triodes, two capacitors and four resistors in a single glass envelope. The inclusion of the passive components reduced the number of pins required to six, but to avoid them contaminating the vacuum, they are each sealed inside a glass tube.

One of the reasons for the development of this amazing device was that in Germany, there was a tax on receivers based on the number of valves in the set, so in 1926, Loewe Radio A.G introduced the 3NF, and also another multi-valve, the 2HF, which contained two screen-grid tetrodes, two resistors and a capacitor, intended for use as a two-stage RF amplifier. The original Loewe multi-valves are masterpieces of glasswork, which must have been very expensive to manufacture, so later versions used a mica supports, and the glass was given an aluminium outer coating to hide the less elegant internal structure. An obvious drawback of putting three valves in a single envelope is that if one filament fails, the whole device becomes useless, but to counter this disadvantage, Loewe offered a repair service to replace failed filaments.

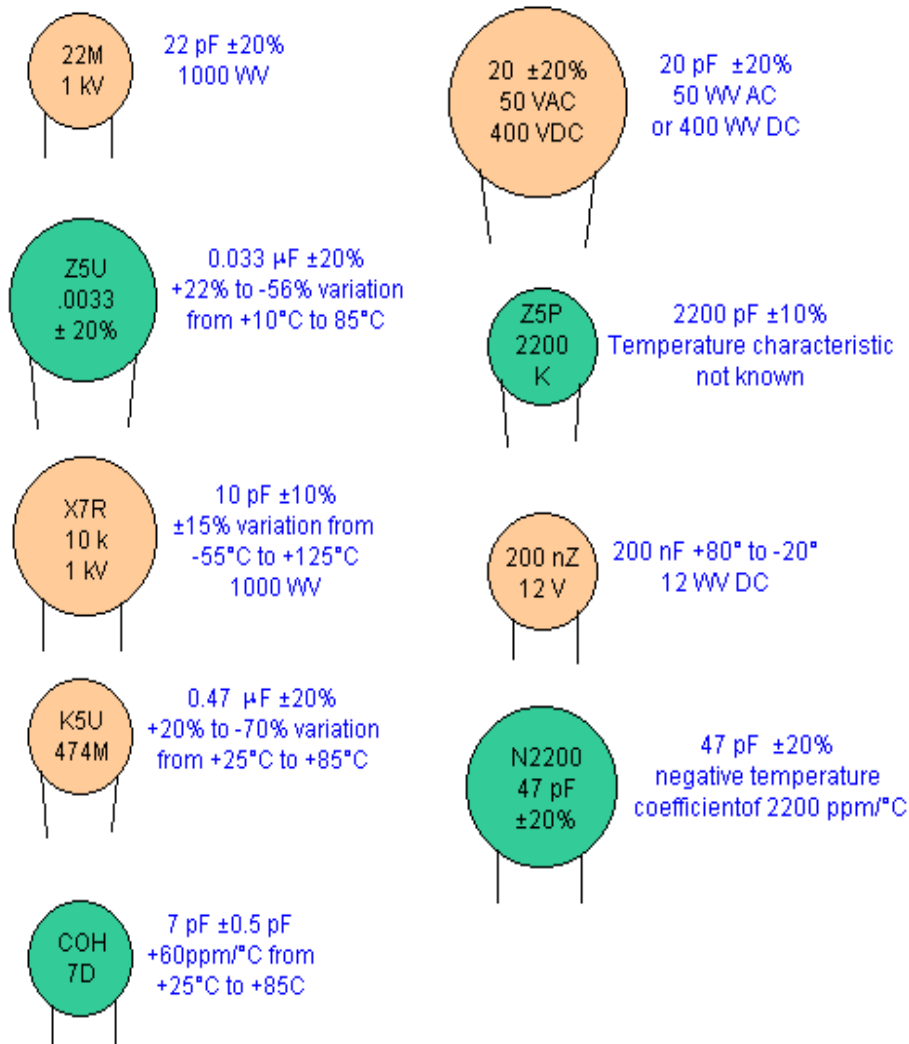
Loewe later developed a more sophisticated multi-valve, the WG36, which was enclosed in a metal shield, containing two variable-mu pentodes and a triode, used respectively as RF amplifier, IF Amplifier, and oscillator.



Resistor colour codes

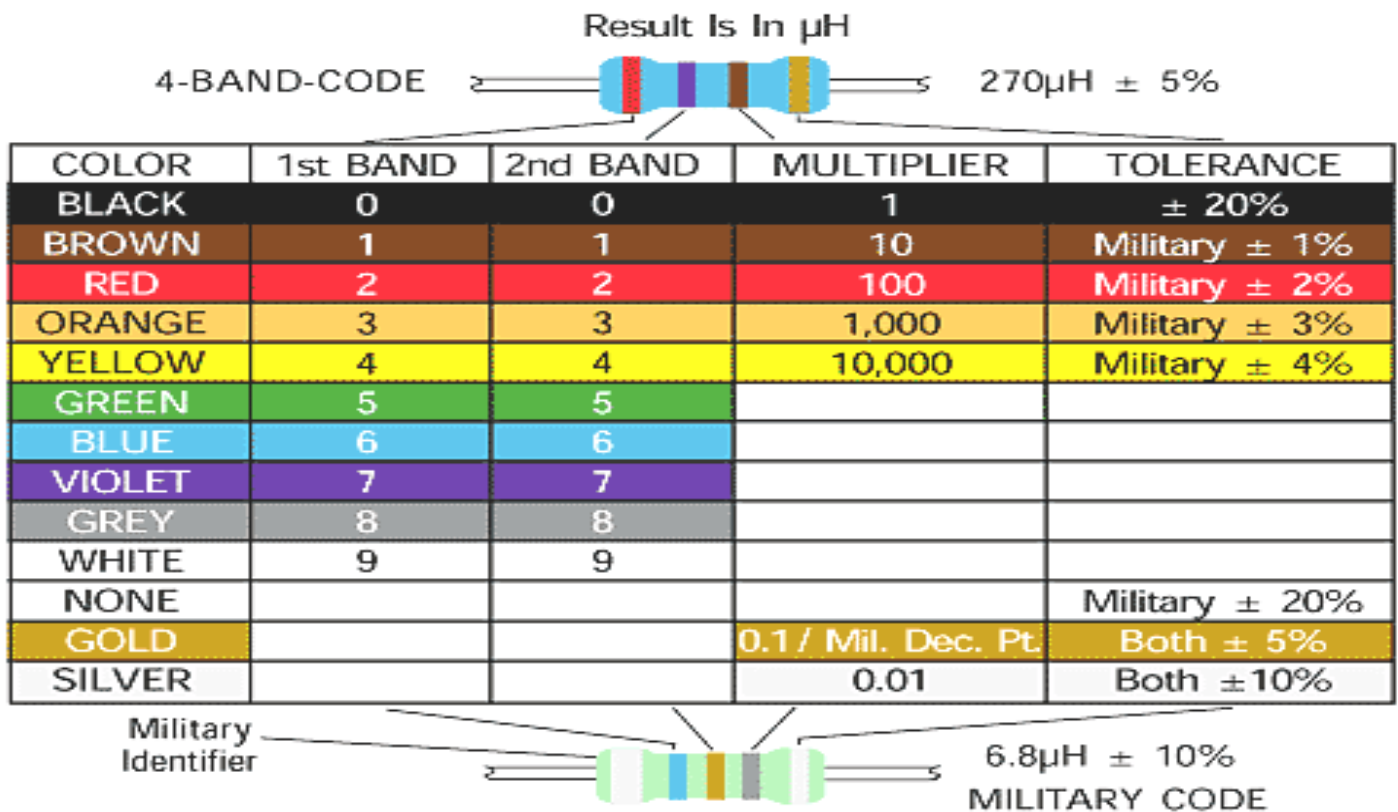


Ceramic disk capacitors



Ceramic disk capacitors have many marking schemes. Capacitance, tolerance, working voltage and temperature coefficient may be found. Capacitance values are given as number without any identification as to units. (uF, nF, pF) Whole numbers usually indicate pF and decimal numbers such as 0.1 or 0.47 are microfarads. Odd looking numbers such as 473 is the previously explained system and means 47 nF.

Inductor colour codes



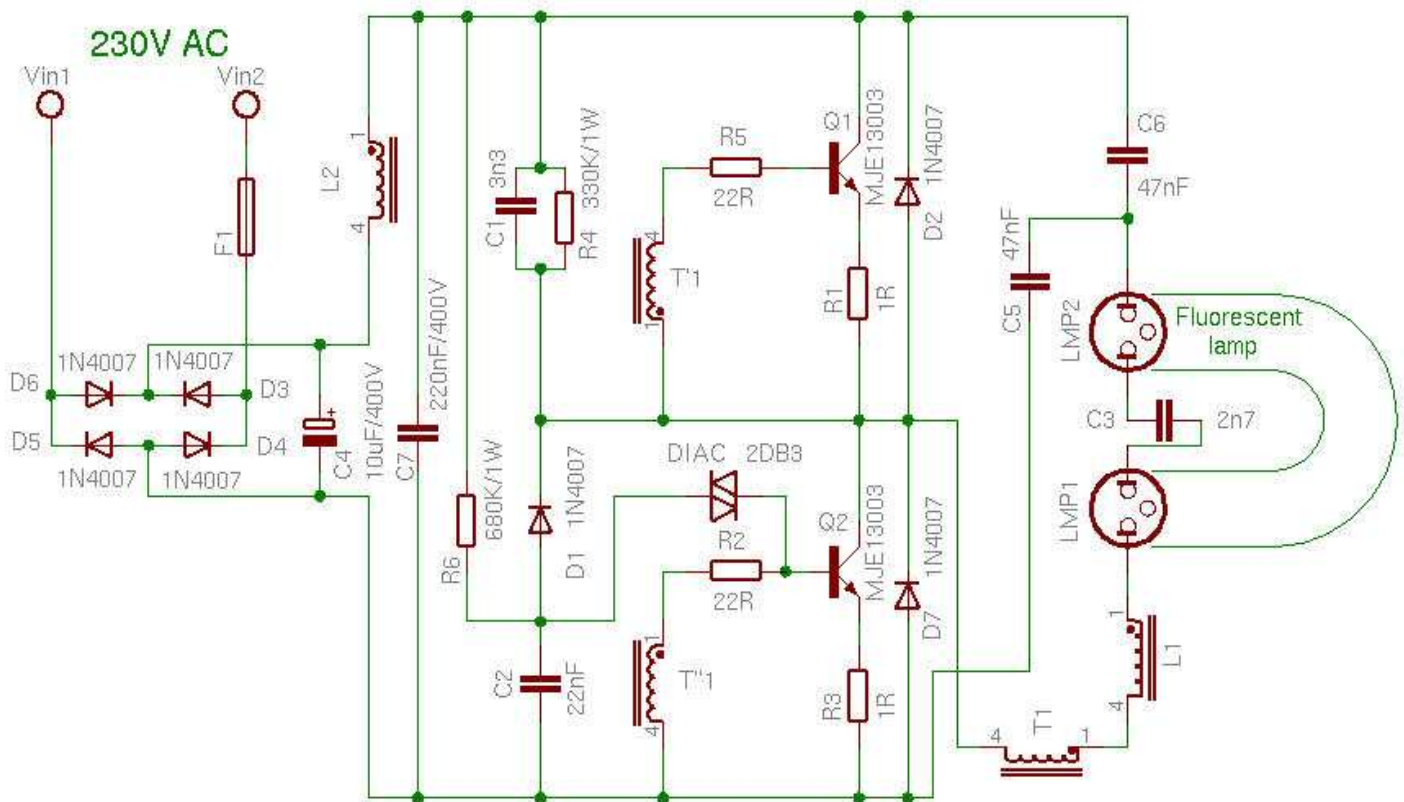
LETTER OF RECOMMENDATION

1 XYZ, my assistant programmer, can always be found
 2 hard at work in his cubicle. XYZ works independently, without
 3 wasting company time talking to colleagues. XYZ never
 4 thinks twice about assisting fellow employees, and he always
 5 finishes given assignments on time. Often he takes extended
 6 measures to complete his work, sometimes skipping coffee
 7 breaks. XYZ is an individual who has absolutely no
 8 vanity in spite of his high accomplishments and profound
 9 knowledge in his field. I firmly believe that XYZ can be
 10 classed as a high-calibre employee, the type that cannot be
 11 dispensed with. Consequently, I truly recommend that XYZ be
 12 promoted to executive management, and a proposal will be
 13 executed as soon as possible.

Addendum

The idiot was standing over my shoulder while I wrote this report.
 Kindly re-read only the odd numbered lines

Circuit of a common Compact Fluorescent Lamp (CFL)



CLUB INFORMATION

Postal address PO Box 19937 Sunward Park 1470

Monthly meeting venue

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

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.
Relay - 80M - 3662KHz

First Saturday of the month at 14:30

Committee

Chairman	Frank van Wensveen	ZS6TMV	082-294-2648
Vice Chairman	Frank Mercier	ZS6MER	011-845-1146
Secretary/Treasurer	Berridge Emmett	ZS6BFL	011-893-1291
Assistant Secretary	Marianne Treyvellan	ZR6JMT	084-403-3355
Repeater/Packet/Technical	Ton van Dijk	ZS6ANA	011-432-5494
Shacknews Editor	Berridge Emmett	ZS6BFL	011-893-1291
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Club bank details

First National Bank - Current Account 62116557309

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