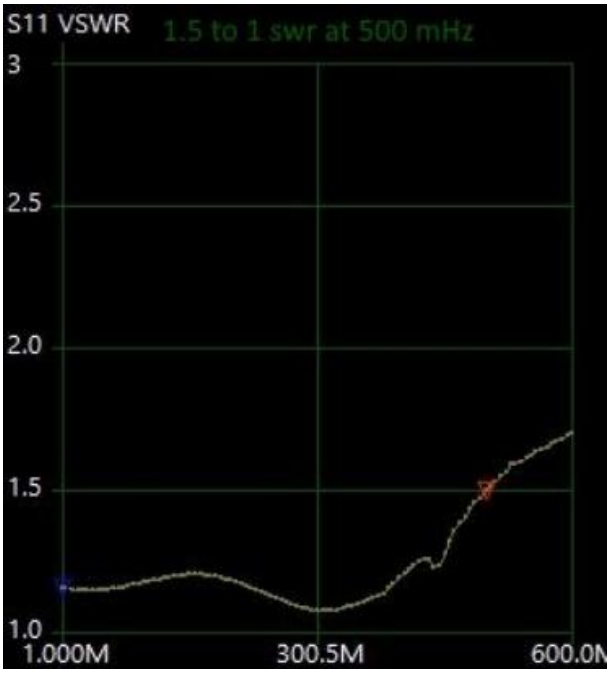
Motorola P7208 Dummy Load

I was looking through some old boxes I had in the garage and came across this 50 Ohm dummy load. The age of this one is unknown. It looks like they were available in the early 1950's.

It is made up of 16, 220 Ohm 10% 2 Watts resistors in a parallel series arrangement. It also has a DC output jack where the power could be sampled with a dc microamp meter. The dummy load came with a calibration chart (that I don't have) where the meter current readings could be converted into Watts. The dummy load was advertised as being able to handle 25 Watts continuous and 60 Watt intermittent. The resistors add up to 32 Watts but they are packed close together and I would be reluctant to run 25 Watts continuous into it.

UPDATE: This is an update on the original measurements I took on this dummy load. I recently updated the firmware on the nanoVNA H-4, I used for the tests. I decide to re-test this DL to get familiar with the new firmware. I found I got improved test results and the results are presented here. I am not saying the different readings are the result of the upgraded firmware. It may have been some issue with the previous calibration. I also re-tested the MFJ-260 dummy load I did earlier and the results for this were virtually identical as before.



Here is the plot of the Motorola dummy load. I find it surprisingly good considering how it's constructed.

Being good to 500 MHz makes sense because it covers the top of the commercial UHF mobile radio band.

Not sure how useful the dummy load is in general because of the low power capability. It would be fine for use with an HF QRP radio or with the typical 2 meter or 450 MHz mobile radios.

Additional information on the dummy load can be found in this Motorola document; https://www.repeater-builder.com/motorola/test-sets/pdfs/p8501a-54891690-b.pdf

January 31, 2026