

The Amateur Radio Crossword Puzzler

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“Components of Success and Failure”

Our little electronics buddies - the R's, the C's, the L's - where would we be without them? Making batteries and watching frog legs twitch, that's where! Not much of a radio to be made from the hindmost appendages of *rana pipiens*, that's for sure. So let's take a look at electronic components in admiration for the thankless job they have of shuttling electrons around in useful ways. After all we only notice them when they...what's that smell? I gotta go!

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Across

1. Detect smoke and fire
5. Components with no leads (abbr.)
9. Wire thickness (abbr.)
10. What a blown-up component is (abbr.)
12. Resistor type
15. To locate a transmitter (abbr.)
17. 1/10000th of a percent (abbr.)
19. Opposite of NS
20. Donut shaped core
22. Used to print designators on a PCB
25. A design that doesn't work
26. These deplete ozone (abbr.)
27. Output resistance (abbr.)
28. Add 'wrap' to get a popular fastener
29. Keeps solder on the pads
32. Lots of voltage (abbr.)
37. Country with the most prefixes
38. Hard resin used for PCBs
41. Sound a capacitor makes from too much voltage
43. What makes the works stop working
45. Resonant circuit (abbr.)
46. Makes components work, only seen when component stops working
47. Type of capacitor dielectric
50. To act
51. Has the northernmost European capital (prefix)
52. Used to dissipate heat in transformers
54. Picture that represents a component

56. Ratio of C to D
57. Not the PM
58. Multiply times kohm to get volts
59. Overheated plastic
60. Integrated circuit
62. What keeps stuff on the board
66. One of the two basic logic gates
67. Add 40 to get this popular toolbox item
68. Metric prefixes denote these powers
69. Country of Macchu Picchu (prefix)
70. Another word for inductor
72. Printed conductors on PCB
73. To place inside of

Down

1. Used for low-resistance plating (chemical symbol)
2. Arrange components on a PCB
3. Try it again
4. One component of 62 Across (chemical symbol)
6. Change with temperature (abbr.)
7. Voltage drop
8. Dissipated energy
11. General purpose (abbr.)
13. Voltage breakdown
14. Invented the honeycomb
16. Plastic capacitor dielectric
18. The body of a component
20. Time delay (abbr.)
21. Ready (abbr.)
22. Drawing describing a circuit
23. Circuit that charges and discharges
24. Prefix indicating "not"
30. Last full month of

- summer (abbr.)
31. Non-rusting steel (abbr.)
33. Club position next to President (abbr.)
34. Distant station (abbr.)
35. Round type of capacitor
36. Signal sent to indicate error
39. JA electronics and printer manufacturer
40. Not enough of these in ham radio (abbr.)
41. A shock gives you an experience out of this
42. Division that's home to ARRL HQ (abbr.)
44. Your (CW abbr.)
47. These indicate component value
48. Old abbreviation for microfarad
49. Abbreviation for component
50. A good reference book gets to be this way (two words)
53. Parts with wires for connections
54. Send this with a QSL request (abbr.)
55. Height above sea level (abbr.)
57. Common dielectric of adjustable capacitors
61. Where a component wire goes on a PCB
63. Brown stripe on a resistor
64. Indicates a connection on 22 Down
65. The tale told when the circuit doesn't work
68. Good source of parts
70. Email copy
71. The other component of 62 Across (chemical symbol)

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