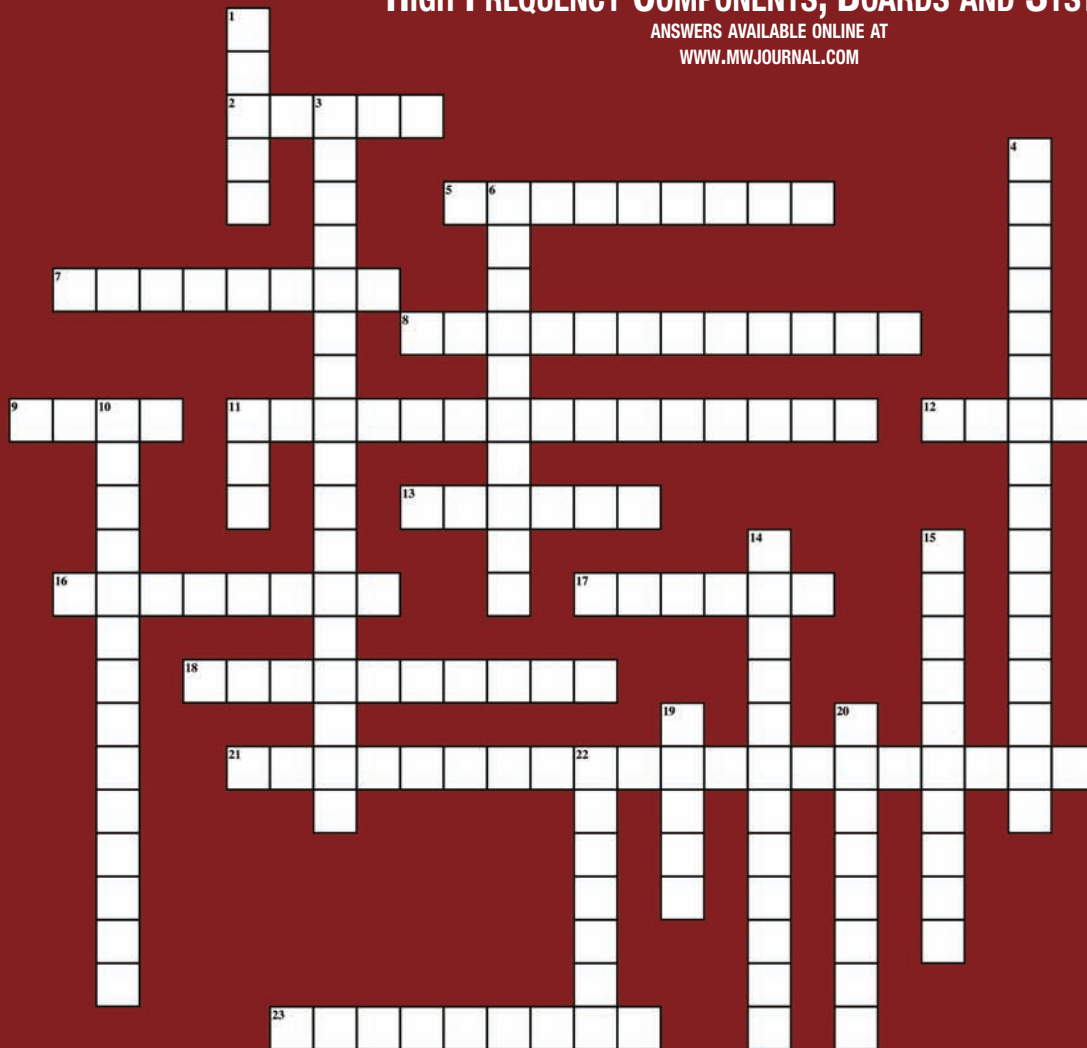




HIGH FREQUENCY COMPONENTS, BOARDS AND SYSTEMS

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ACROSS

- 2** Differential quadrature phase shift key modulation
5 A circuit or device whose output signal is a faithful version of the input signal but with increased amplitude, usually specified as voltage or current
7 A solder consisting of two or more metals, all in the appropriate proportions to allow the lowest possible melting point for the given combination
8 A measure of how much better a material is as a path for magnetic flux as compared to free space
9 Digital European Cordless Telephone
11 A reference signal generating circuit that is contained within a receiver or transmitter (2 words)
12 Monolithic Microwave Integrated Circuit
13 A widely used board material used to make microwave printed circuit boards, especially those employing microstrip, stripline and coplanar waveguide transmission line structures
16 A circuit that produces a low frequency output signal, typically DC or video, whose amplitude is dependent upon the RF incident power level

17 One millionth of a meter

18 A two-port circuit or device that reduces the amplitude of an input signal by a desired amount typically expressed in decibels

21 A feedback system that changes the gain or attenuation in response to variations in magnitude of the input signal, thereby maintaining the output signal of the system at a constant magnitude (3 words)

23 One billionth of a meter

DOWN

- 1** Wideband Code Division Multiple Access
3 Devices that do not amplify or produce a signal (2 words)
4 The amount of electrical power converted to heat by a device (2 words)
6 An unbalanced transmission line structure that consists of a ground plane on the back side of a PCB, the dielectric material of the PCB and a narrow strip on the top side of the circuit board
10 The reduction of signal power as a result of the con-

version from the signal frequency to the IF frequency by a down converting mixer (2 words)

11 Long Term Evolution

14 An impedance that does not have a linear relationship with voltage and current

15 The property of a circuit or component that tends to oppose changes in current due to the magnetic field that is a result of the current itself

19 A transformer circuit that couples a balanced transmission line to an unbalanced transmission line

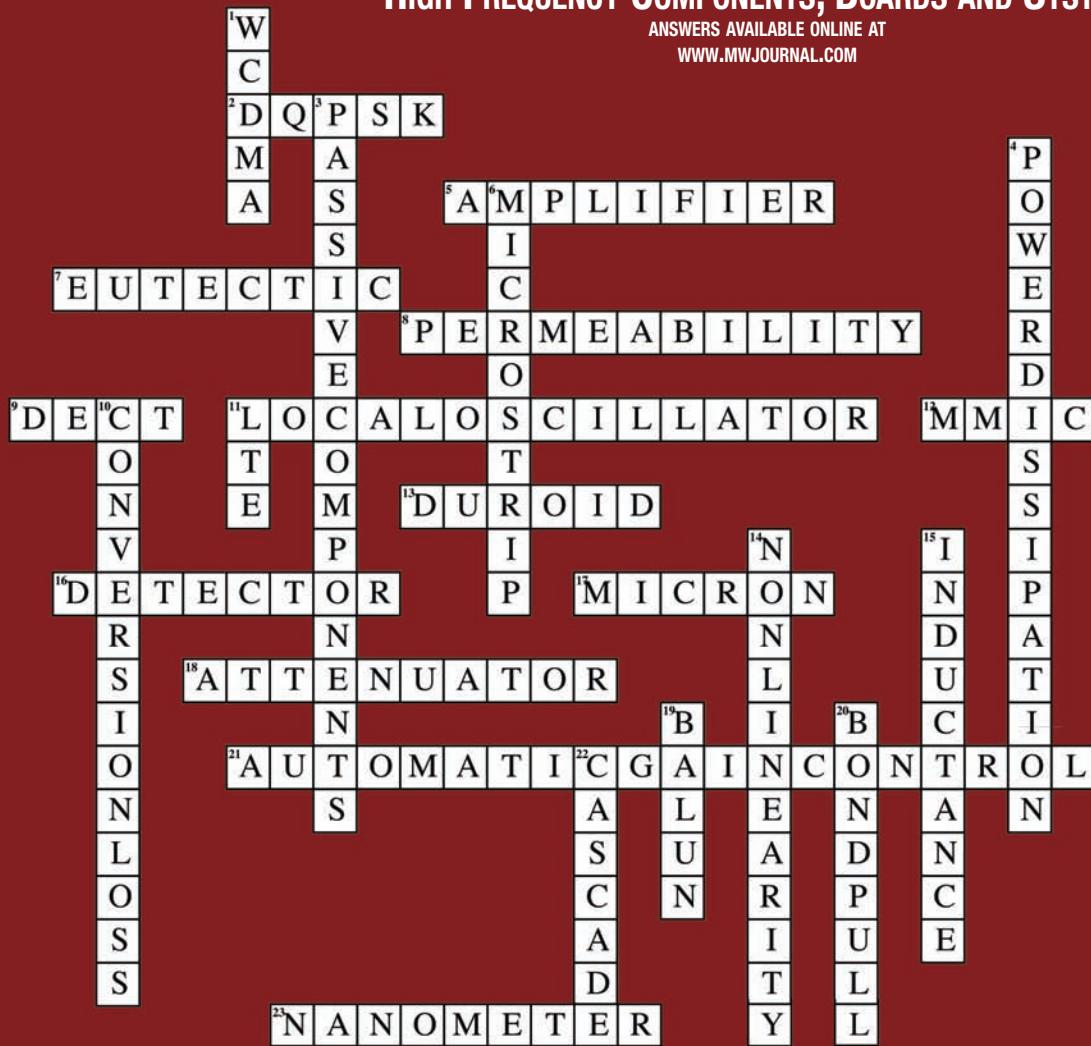
20 A test used to determine the integrity of a wire bond, in which mechanical stress is applied to the wire in the direction that would pull it from the semiconductor bonding area (2 words)

22 A tandem arrangement of two or more components in which the output of one component is connected to the input of the next component



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