

Symbol	Typ	Titel
H	Sektion	SECTION H — ELECTRICITY
H03	Klasse	BASIC ELECTRONIC CIRCUITRY
H03B	Unterklasse	GENERATION OF OSCILLATIONS, DIRECTLY OR BY FREQUENCY-CHANGING, BY CIRCUITS EMPLOYING ACTIVE ELEMENTS WHICH OPERATE IN A NON-SWITCHING MANNER; GENERATION OF NOISE BY SUCH CIRCUITS (measuring, testing G01R; generators adapted for electrophonic musical instruments G10H; speech synthesis G10L 13/00; masers, lasers H01S; dynamo-electric machines H02K; power inverter circuits H02M; by using pulse techniques H03K; automatic control of generators H03L; starting, synchronisation or stabilisation of generators where the type of generator is irrelevant or unspecified H03L; generation of oscillations in plasma H05H)
H03B 1/00	Hauptgruppe	Details
H03B 1/02	1-Punkt Untergruppe	. Structural details of power oscillators, e.g. for heating
H03B 1/04	1-Punkt Untergruppe	. Reducing undesired oscillations, e.g. harmonics
H03B 5/00	Hauptgruppe	Generation of oscillations using amplifier with regenerative feedback from output to input (H03B 9/00, H03B 15/00 take precedence)
H03B 5/02	1-Punkt Untergruppe	. Details
H03B 5/04	2-Punkt Untergruppe	. . Modifications of generator to compensate for variations in physical values, e.g. power supply, load, temperature
H03B 5/06	2-Punkt Untergruppe	. . Modifications of generator to ensure starting of oscillations
H03B 5/08	1-Punkt Untergruppe	. with frequency-determining element comprising lumped inductance and capacitance
H03B 5/10	2-Punkt Untergruppe	. . active element in amplifier being vacuum tube (H03B 5/14 takes precedence)
H03B 5/12	2-Punkt Untergruppe	. . active element in amplifier being semiconductor device (H03B 5/14 takes precedence)
H03B 5/14	2-Punkt Untergruppe	. . frequency-determining element connected <u>via</u> bridge circuit to closed ring around which signal is transmitted
H03B 5/16	3-Punkt Untergruppe	. . . active element in amplifier being vacuum tube
H03B 5/18	1-Punkt Untergruppe	. with frequency-determining element comprising distributed inductance and capacitance
H03B 5/20	1-Punkt Untergruppe	. with frequency-determining element comprising resistance and either capacitance or inductance, e.g. phase-shift oscillator
H03B 5/22	2-Punkt Untergruppe	. . active element in amplifier being vacuum tube (H03B 5/26 takes precedence)
H03B 5/24	2-Punkt Untergruppe	. . active element in amplifier being semiconductor device (H03B 5/26 takes precedence)
H03B 5/26	2-Punkt Untergruppe	. . frequency-determining element being part of bridge circuit in closed ring around which signal is transmitted; frequency-determining element being connected <u>via</u> a bridge circuit to such a closed ring, e.g. Wien-Bridge oscillator, parallel-T oscillator
H03B 5/28	3-Punkt Untergruppe	. . . active element in amplifier being vacuum tube
H03B 5/30	1-Punkt Untergruppe	. with frequency-determining element being electromechanical resonator
H03B 5/32	2-Punkt Untergruppe	. . being a piezo-electric resonator (piezo-electric elements in general H01L 41/00)
H03B 5/34	3-Punkt Untergruppe	. . . active element in amplifier being vacuum tube (H03B 5/38 takes precedence)
H03B 5/36	3-Punkt Untergruppe	. . . active element in amplifier being semiconductor device (H03B 5/38 takes precedence)

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H03B 5/38	3-Punkt Untergruppe	. . . frequency-determining element being connected <u>via</u> bridge circuit to closed ring around which signal is transmitted
H03B 5/40	2-Punkt Untergruppe	. . being a magnetostrictive resonator (H03B 5/42 takes precedence; magnetostrictive elements in general H01L 41/00)
H03B 5/42	2-Punkt Untergruppe	. . frequency-determining element connected <u>via</u> bridge circuit to closed ring around which signal is transmitted
H03B 7/00	Hauptgruppe	Generation of oscillations using active element having a negative resistance between two of its electrodes (H03B 9/00 takes precedence)
H03B 7/02	1-Punkt Untergruppe	. with frequency-determining element comprising lumped inductance and capacitance
H03B 7/04	2-Punkt Untergruppe	. . active element being vacuum tube
H03B 7/06	2-Punkt Untergruppe	. . active element being semiconductor device
H03B 7/08	3-Punkt Untergruppe	. . . being a tunnel diode
H03B 7/10	2-Punkt Untergruppe	. . active element being gas-discharge or arc-discharge tube
H03B 7/12	1-Punkt Untergruppe	. with frequency-determining element comprising distributed inductance and capacitance
H03B 7/14	2-Punkt Untergruppe	. . active element being semiconductor device
H03B 9/00	Hauptgruppe	Generation of oscillations using transit-time effects [2]
H03B 9/01	1-Punkt Untergruppe	. using discharge tubes [2]
H03B 9/02	2-Punkt Untergruppe	. . using a retarding-field tube (using klystrons H03B 9/04) [2]
H03B 9/04	2-Punkt Untergruppe	. . using a klystron [2]
H03B 9/06	3-Punkt Untergruppe	. . . using a reflex klystron [2]
H03B 9/08	2-Punkt Untergruppe	. . using a travelling-wave tube [2]
H03B 9/10	2-Punkt Untergruppe	. . using a magnetron [2]
H03B 9/12	1-Punkt Untergruppe	. using solid state devices, e.g. Gunn-effect devices [2]
H03B 9/14	2-Punkt Untergruppe	. . and elements comprising distributed inductance and capacitance [3]
H03B 11/00	Hauptgruppe	Generation of oscillations using a shock-excited tuned circuit (with feedback H03B 5/00)
H03B 11/02	1-Punkt Untergruppe	. excited by spark (spark gaps therefor H01T 9/00)
H03B 11/04	1-Punkt Untergruppe	. excited by interrupter
H03B 11/06	2-Punkt Untergruppe	. . by mechanical interrupter
H03B 11/08	2-Punkt Untergruppe	. . interrupter being discharge tube
H03B 11/10	2-Punkt Untergruppe	. . interrupter being semiconductor device
H03B 13/00	Hauptgruppe	Generation of oscillations using deflection of electron beam in a cathode-ray tube
H03B 15/00	Hauptgruppe	Generation of oscillations using galvano-magnetic devices, e.g. Hall-effect devices, or using super-conductivity effects (galvano-magnetic devices <u>per se</u> H01L 43/00)
H03B 17/00	Hauptgruppe	Generation of oscillations using radiation source and detector, e.g. with interposed variable obturator
H03B 19/00	Hauptgruppe	Generation of oscillations by non-regenerative frequency multiplication or division of a signal from a separate source (transference of modulation from one carrier to another H03D 7/00)

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H03B 19/03	1-Punkt Untergruppe	. using non-linear inductance [3]
H03B 19/05	1-Punkt Untergruppe	. using non-linear capacitance, e.g. varactor diodes [3]
H03B 19/06	1-Punkt Untergruppe	. by means of discharge device or semiconductor device with more than two electrodes
H03B 19/08	2-Punkt Untergruppe	. . by means of a discharge device
H03B 19/10	3-Punkt Untergruppe	. . . using multiplication only
H03B 19/12	3-Punkt Untergruppe	. . . using division only
H03B 19/14	2-Punkt Untergruppe	. . by means of a semiconductor device
H03B 19/16	1-Punkt Untergruppe	. using uncontrolled rectifying devices, e.g. rectifying diodes or Schottky diodes [3]
H03B 19/18	2-Punkt Untergruppe	. . and elements comprising distributed inductance and capacitance [3]
H03B 19/20	2-Punkt Untergruppe	. . being diodes exhibiting charge storage or enhancement effects [3]
H03B 21/00	Hauptgruppe	Generation of oscillations by combining unmodulated signals of different frequencies (H03B 19/00 takes precedence; frequency changing circuits in general H03D) [3]
H03B 21/01	1-Punkt Untergruppe	. by beating unmodulated signals of different frequencies [3]
H03B 21/02	2-Punkt Untergruppe	. . by plural beating, i.e. for frequency synthesis [3]
H03B 21/04	2-Punkt Untergruppe	. . using several similar stages [3]
H03B 23/00	Hauptgruppe	Generation of oscillations periodically swept over a predetermined frequency range (angle-modulating circuits in general H03C 3/00)
H03B 25/00	Hauptgruppe	Simultaneous generation by a free-running oscillator of oscillations having different frequencies
H03B 27/00	Hauptgruppe	Generation of oscillations providing a plurality of outputs of the same frequency but differing in phase, other than merely two anti-phase outputs
H03B 28/00	Hauptgruppe	Generation of oscillations by methods not covered by groups H03B 5/00-H03B 27/00, including modification of the waveform to produce sinusoidal oscillations (analogue function generators for performing computing operations G06G 7/26; use of transformers for conversion of waveform in ac-ac converters H02M 5/18) [4]
H03B 29/00	Hauptgruppe	Generation of noise currents and voltages