Symbol	Typ	Titel
H	**Sektion**	**ELECTRICITY**
H03	**Klasse**	**BASIC ELECTRONIC CIRCUITRY**
H03H	**Unterklasse**	**IMPEDANCE NETWORKS, e.g. RESONANT CIRCUITS; RESONATORS (measuring, testing G01R; arrangements for producing a reverberation or echo sound G10K 15/08; impedance networks or resonators consisting of distributed impedances, e.g. of the waveguide type, H01P; control of amplification, e.g. bandwidth control of amplifiers, H03G; tuning resonant circuits, e.g. tuning coupled resonant circuits, H03J; networks for modifying the frequency characteristics of communication systems H04B)**
H03H 1/00	**Hauptgruppe**	**Constructional details of impedance networks whose electrical mode of operation is not specified or applicable to more than one type of network (constructional details of electromechanical transducers H03H 9/00) [1, 2006.01]**
H03H 1/02	1-Punkt Untergruppe	. RC networks, e.g. filters (structural combinations of capacitors with other electric elements H01G) [3, 2006.01]
H03H 2/00	**Hauptgruppe**	**Networks using elements or techniques not provided for in groups H03H 3/00-H03H 21/00 [3, 2006.01]**
H03H 3/00	**Hauptgruppe**	**Apparatus or processes specially adapted for the manufacture of impedance networks, resonating circuits, resonators [1, 2006.01]**
H03H 3/007	1-Punkt Untergruppe	. for the manufacture of electromechanical resonators or networks [3, 2006.01]
H03H 3/013	2-Punkt Untergruppe	. . for obtaining desired frequency or temperature coefficient (H03H 3/04, H03H 3/10 take precedence) [3, 2006.01]
H03H 3/02	2-Punkt Untergruppe	. . for the manufacture of piezo-electric or electrostrictive resonators or networks (H03H 3/08 takes precedence) [1, 3, 2006.01]
H03H 3/04	3-Punkt Untergruppe	. . . for obtaining desired frequency or temperature coefficient [1, 3, 2006.01]
H03H 3/06	2-Punkt Untergruppe	. . for the manufacture of magnetostrictive resonators or networks [1, 3, 2006.01]
H03H 3/08	2-Punkt Untergruppe	. . for the manufacture of resonators or networks using surface acoustic waves [3, 2006.01]
H03H 3/10	3-Punkt Untergruppe	. . . for obtaining desired frequency or temperature coefficient [3, 2006.01]
H03H 5/00	**Hauptgruppe**	**One-port networks comprising only passive electrical elements as network components [1, 3, 2006.01]**
H03H 5/02	1-Punkt Untergruppe	. without voltage- or current-dependent elements [1, 2006.01]
H03H 5/10	2-Punkt Untergruppe	. . comprising at least one element with prescribed temperature coefficient [1, 2006.01]
H03H 5/12	1-Punkt Untergruppe	. with at least one voltage- or current-dependent element [1, 2006.01]
H03H 7/00	**Hauptgruppe**	**Multiple-port networks comprising only passive electrical elements as network components (receiver input circuits H04B 1/18; networks simulating a length of communication cable H04B 3/40) [1, 3, 2006.01]**
H03H 7/01	1-Punkt Untergruppe	. Frequency selective two-port networks [3, 2006.01]
H03H 7/03	2-Punkt Untergruppe	. . comprising means for compensation of loss [3, 2006.01]
H03H 7/06	2-Punkt Untergruppe	. . including resistors (H03H 7/075, H03H 7/09, H03H 7/12, H03H 7/13 take precedence) [1, 3, 2006.01]
H03H 7/065	3-Punkt Untergruppe	. . . Parallel T-filters [3, 2006.01]
H03H 7/07	3-Punkt Untergruppe	. . . Bridged T-filters [3, 2006.01]
H03H 7/075	2-Punkt Untergruppe	. . Ladder networks, e.g. electric wave filters [3, 2006.01]
H03H 7/09	2-Punkt Untergruppe	. . Filters comprising mutual inductance [3, 2006.01]

Symbol	Typ	Titel
H03H 7/12	2-Punkt Untergruppe	. . Bandpass or bandstop filters with adjustable bandwidth and fixed centre frequency (H03H 7/09 takes precedence; automatic control of bandwidth in amplifiers H03G 5/16) [1, 2006.01]
H03H 7/13	2-Punkt Untergruppe	. . using electro-optical elements [3, 2006.01]
H03H 7/18	1-Punkt Untergruppe	. Networks for phase shifting [1, 2006.01]
H03H 7/19	2-Punkt Untergruppe	. . Two-port phase shifters providing a predetermined phase shift, e.g. "all-pass" filters [3, 2006.01]
H03H 7/20	2-Punkt Untergruppe	. . Two-port phase shifters providing an adjustable phase shift [1, 3, 2006.01]
H03H 7/21	2-Punkt Untergruppe	. . providing two or more phase shifted output signals, e.g. n-phase output [3, 2006.01]
H03H 7/24	1-Punkt Untergruppe	. Frequency-independent attenuators [1, 2006.01]
H03H 7/25	2-Punkt Untergruppe	. . comprising an element controlled by an electric or magnetic variable (H03H 7/27 takes precedence) [3, 2006.01]
H03H 7/27	2-Punkt Untergruppe	. . comprising a photo-electric element [3, 2006.01]
H03H 7/30	1-Punkt Untergruppe	. Time-delay networks [1, 2006.01]
H03H 7/32	2-Punkt Untergruppe	. . with lumped inductance and capacitance [1, 2006.01]
H03H 7/34	2-Punkt Untergruppe	. . with lumped and distributed reactance [1, 2006.01]
H03H 7/38	1-Punkt Untergruppe	. Impedance-matching networks [1, 2006.01]
H03H 7/40	2-Punkt Untergruppe	. . Automatic matching of load impedance to source impedance [1, 2006.01]
H03H 7/42	1-Punkt Untergruppe	. Balance/unbalance networks [1, 2006.01]
H03H 7/46	1-Punkt Untergruppe	. Networks for connecting several sources or loads, working on different frequencies or frequency bands, to a common load or source (for use in multiplex transmission systems H04J 1/00) [1, 2006.01]
H03H 7/48	1-Punkt Untergruppe	. Networks for connecting several sources or loads, working on the same frequency or frequency band, to a common load or source (phase shifters providing two or more output signals H03H 7/21) [1, 3, 2006.01]
H03H 7/52	1-Punkt Untergruppe	. One-way transmission networks, i.e. unilines [1, 2006.01]
H03H 7/54	1-Punkt Untergruppe	. Modifications of networks to reduce influence of variations of temperature [3, 2006.01]
H03H 9/00	**Hauptgruppe**	**Networks comprising electromechanical or electro-acoustic elements; Electromechanical resonators (manufacture of piezo-electric or magnetostrictive elements H01L 41/00; loudspeakers, microphones, gramophone pick-ups or the like H04R) [1, 2006.01]**
H03H 9/02	1-Punkt Untergruppe	. Details [1, 3, 2006.01]
H03H 9/05	2-Punkt Untergruppe	. . Holders; Supports [3, 2006.01]
H03H 9/08	3-Punkt Untergruppe	. . . Holders with means for regulating temperature [1, 2006.01]
H03H 9/09	3-Punkt Untergruppe	. . . Elastic or damping supports [3, 2006.01]
H03H 9/10	3-Punkt Untergruppe	. . . Mounting in enclosures [1, 2006.01]
H03H 9/12	4-Punkt Untergruppe	. . . . for networks with interaction of optical and acoustic waves [1, 2006.01]
H03H 9/125	2-Punkt Untergruppe	. . Driving means, e.g. electrodes, coils [3, 2006.01]
H03H 9/13	3-Punkt Untergruppe	. . . for networks consisting of piezo-electric or electrostrictive materials (H03H 9/145 takes precedence) [3, 2006.01]
H03H 9/135	3-Punkt Untergruppe	. . . for networks consisting of magnetostrictive materials (H03H 9/145 takes precedence) [3, 2006.01]

Symbol	Typ	Titel
H03H 9/145	3-Punkt Untergruppe	. . . for networks using surface acoustic waves [3, 2006.01]
H03H 9/15	1-Punkt Untergruppe	. Constructional features of resonators consisting of piezo-electric or electrostrictive material (H03H 9/25 takes precedence) [3, 2006.01]
H03H 9/17	2-Punkt Untergruppe	. . having a single resonator (crystal tuning forks H03H 9/21) [3, 2006.01]
H03H 9/19	3-Punkt Untergruppe	. . . consisting of quartz [3, 2006.01]
H03H 9/205	2-Punkt Untergruppe	. . having multiple resonators (crystal tuning forks H03H 9/21) [3, 2006.01]
H03H 9/21	2-Punkt Untergruppe	. . Crystal tuning forks [3, 2006.01]
H03H 9/215	3-Punkt Untergruppe	. . . consisting of quartz [3, 2006.01]
H03H 9/22	1-Punkt Untergruppe	. Constructional features of resonators consisting of magnetostricitve material [1, 2006.01]
H03H 9/24	1-Punkt Untergruppe	. Constructional features of resonators of material which is not piezo-electric, electrostrictive, or magnetostrictive [1, 2006.01]
H03H 9/25	1-Punkt Untergruppe	. Constructional features of resonators using surface acoustic waves [3, 2006.01]
H03H 9/30	1-Punkt Untergruppe	. Time-delay networks [1, 2006.01]
H03H 9/36	2-Punkt Untergruppe	. . with non-adjustable delay time (H03H 9/40, H03H 9/42 take precedence) [3, 2006.01]
H03H 9/38	2-Punkt Untergruppe	. . with adjustable delay time (H03H 9/40, H03H 9/42 take precedence) [3, 2006.01]
H03H 9/40	2-Punkt Untergruppe	. . Frequency-dependent delay lines, e.g. dispersive delay lines (H03H 9/42 takes precedence) [3, 2006.01]
H03H 9/42	2-Punkt Untergruppe	. . using surface acoustic waves [3, 2006.01]
H03H 9/44	3-Punkt Untergruppe	. . . Frequency-dependent delay lines, e.g. dispersive delay lines [3, 2006.01]
H03H 9/46	1-Punkt Untergruppe	. Filters (multiple-port electromechanical filters H03H 9/70) [3, 2006.01]
H03H 9/48	2-Punkt Untergruppe	. . Coupling means therefor [3, 2006.01]
H03H 9/50	3-Punkt Untergruppe	. . . Mechanical coupling means [3, 2006.01]
H03H 9/52	3-Punkt Untergruppe	. . . Electric coupling means [3, 2006.01]
H03H 9/54	2-Punkt Untergruppe	. . comprising resonators of piezo-electric or electrostrictive material (H03H 9/64 takes precedence) [3, 2006.01]
H03H 9/56	3-Punkt Untergruppe	. . . Monolithic crystal filters [3, 2006.01]
H03H 9/58	3-Punkt Untergruppe	. . . Multiple crystal filters [3, 2006.01]
H03H 9/60	4-Punkt Untergruppe	. . . . Electric coupling means therefor [3, 2006.01]
H03H 9/62	2-Punkt Untergruppe	. . comprising resonators of magnetostrictive material (H03H 9/64 takes precedence) [3, 2006.01]
H03H 9/64	2-Punkt Untergruppe	. . using surface acoustic waves [3, 2006.01]
H03H 9/66	1-Punkt Untergruppe	. Phase shifters [3, 2006.01]
H03H 9/68	2-Punkt Untergruppe	. . using surface acoustic waves [3, 2006.01]
H03H 9/70	1-Punkt Untergruppe	. Multiple-port networks for connecting several sources or loads, working on different frequencies or frequency bands, to a common or source [3, 2006.01]
H03H 9/72	2-Punkt Untergruppe	. . Networks using surface acoustic waves [3, 2006.01]

Symbol	Typ	Titel
H03H 9/74	1-Punkt Untergruppe	. Multiple-port networks for connecting several sources or loads, working on the same frequency or frequency band, to a common load or source (networks for phase shifting H03H 9/66) [3, 2006.01]
H03H 9/76	2-Punkt Untergruppe	. . Networks using surface acoustic waves [3, 2006.01]
H03H 11/00	**Hauptgruppe**	**Networks using active elements [1, 2006.01]**
H03H 11/02	1-Punkt Untergruppe	. Multiple-port networks [3, 2006.01]
H03H 11/04	2-Punkt Untergruppe	. . Frequency selective two-port networks [3, 2006.01]
H03H 11/06	3-Punkt Untergruppe	. . . comprising means for compensation of loss [3, 2006.01]
H03H 11/08	3-Punkt Untergruppe	. . . using gyrators [3, 2006.01]
H03H 11/10	3-Punkt Untergruppe	. . . using negative impedance converters (H03H 11/08 takes precedence) [3, 2006.01]
H03H 11/12	3-Punkt Untergruppe	. . . using amplifiers with feedback (H03H 11/08, H03H 11/10 take precedence) [3, 2006.01]
H03H 11/14	3-Punkt Untergruppe	. . . using electro-optical devices [3, 2006.01]
H03H 11/16	2-Punkt Untergruppe	. . Networks for phase shifting [3, 2006.01]
H03H 11/18	3-Punkt Untergruppe	. . . Two-port phase shifters providing a predetermined phase shift, e.g. "all-pass" filters [3, 2006.01]
H03H 11/20	3-Punkt Untergruppe	. . . Two-port phase shifters providing an adjustable phase shift [3, 2006.01]
H03H 11/22	3-Punkt Untergruppe	. . . providing two or more phase shifted output signals, e.g. n-phase output [3, 2006.01]
H03H 11/24	2-Punkt Untergruppe	. . Frequency-independent attenuators [3, 2006.01]
H03H 11/26	2-Punkt Untergruppe	. . Time-delay networks (analogue shift registers G11C 27/04) [3, 2006.01]
H03H 11/28	2-Punkt Untergruppe	. . Impedance matching networks [3, 2006.01]
H03H 11/30	3-Punkt Untergruppe	. . . Automatic matching of source impedance to load impedance [3, 2006.01]
H03H 11/32	2-Punkt Untergruppe	. . Balance-unbalance networks [3, 2006.01]
H03H 11/34	2-Punkt Untergruppe	. . Networks for connecting several sources or loads working on different frequencies or frequency bands, to a common load or source (for use in multiplex transmission systems H04J 1/00) [3, 2006.01]
H03H 11/36	2-Punkt Untergruppe	. . Networks for connecting several sources or loads, working on the same frequency or frequency band, to a common load or source (phase shifters providing two or more output signals H03H 11/22) [3, 2006.01]
H03H 11/38	2-Punkt Untergruppe	. . One-way transmission networks, i.e. unilines [3, 2006.01]
H03H 11/40	2-Punkt Untergruppe	. . Impedance converters [3, 2006.01]
H03H 11/42	3-Punkt Untergruppe	. . . Gyrators (used in frequency selective networks H03H 11/08) [3, 2006.01]
H03H 11/44	3-Punkt Untergruppe	. . . Negative impedance converters (H03H 11/42 takes precedence; used in frequency-selective networks H03H 11/10) [3, 2006.01]
H03H 11/46	1-Punkt Untergruppe	. One-port networks [3, 2006.01]
H03H 11/48	2-Punkt Untergruppe	. . simulating reactances [3, 2006.01]
H03H 11/50	3-Punkt Untergruppe	. . . using gyrators [3, 2006.01]
H03H 11/52	2-Punkt Untergruppe	. . simulating negative resistances [3, 2006.01]
H03H 11/54	1-Punkt Untergruppe	. Modifications of networks to reduce influence of variations of temperature [3, 2006.01]
H03H 15/00	**Hauptgruppe**	**Transversal filters (electromechanical filters H03H 9/46, H03H 9/70) [3, 2006.01]**

Symbol	Typ	Titel
H03H 15/02	1-Punkt Untergruppe	. using analogue shift registers [3, 2006.01]
H03H 17/00	**Hauptgruppe**	**Networks using digital techniques [3, 2006.01]**
H03H 17/02	1-Punkt Untergruppe	. Frequency-selective networks [3, 2006.01]
H03H 17/04	2-Punkt Untergruppe	. . Recursive filters [3, 2006.01]
H03H 17/06	2-Punkt Untergruppe	. . Non-recursive filters [3, 2006.01]
H03H 17/08	1-Punkt Untergruppe	. Networks for phase-shifting [3, 2006.01]
H03H 19/00	**Hauptgruppe**	**Networks using time-varying elements, e.g. N-path filters [3, 2006.01]**
H03H 21/00	**Hauptgruppe**	**Adaptive networks [3, 2006.01]**