Content / Inhalt

Antennas and Feeds

Very Compact and High Performance Transition for Circular to Rectangular Waveguide by Jeffrey Pawlan, WA6KBL	10
Easy to Manufacture and Extremely High Performance Dual Mode Feedhorns - with Direct Waveguide Input for the 10GHz and 24GHz Bands by Jeffrey Pawlan, WA6KBL	25
Reflector Impedance Control within Yagi Antennas (1) by Justin Johnson, G0KSC	41
Reflector Impedance Control within Yagi Antennas (2) by Justin Johnson, G0KSC	50
Dual band feed horn for 1296 MHz and 5760 MHz by Ivan Shor, RA3WDK	62
Experiences with building septum CP dish feeds without machine tools by Charlie Suckling, G3WDG	68
Another Hybrid Antenna System for 432 MHz by Slobodan Bukvic, YU7XL	84
2 m & 70 cm High Performance Power Splitters by Hartmut Klüver, DG7YBN	94

Premplifier

The Challenge of LNAs for 10 GHz by Dominique Fässler, HB9BBD

110

Power Amplifier

High Power Amplifiers for X-band with GaAsFETs by Goran Popovic, AD6IW	124
A 400 W Amplifier for 1296 MHz using the MRF8VP13350N by W7FSL, Freescale Amateur Radio Society	139
Transverters & Oscillators	
A 47 GHz-Transverter with new mixer housing and a doubler from 12 to 24 GHz for coaxial input by Philipp Prinz, DL2AM	149
100 MHz to 3 GHz PLL Frequency Synthesizer, Mk2 by Daniel Uppström, SM6VFZ	157
A Dual Band Transverter for 76 GHz and 122 GHz by Alan Devlin, VK3XPD	170
249 GHz Transverter concept with x6 multiplier by Kiyoshi Morimoto, JA3CVF	183
Measuring Equipment & Miscellaneous	
Repair Solutions for Millimeter Wave Mixers and Detectors by Alan Devlin, VK3XPD	184
Simple sighting mechanism for parabolic dishes by Philipp Prinz, DL2AM	201
Modifications for the MTRU UMTS PA module from HUAWEI for usage on 13 cm (2320 MHz) by Tomek Babut, SP5XMU, and Andrzej Niczyporuk, SP8XXN	204
Cheap automatic noise figure indicator (CANFI) – Noise Figure Measurement using RTL2832 DVB-T Sticks by Alexander Kurpiers, DL8AAU, et al.	212
Efficiently Measuring Sky Positions for Pointing Corrections of Radio Telescopes by Joachim Köppen, DF3GJ	224

Pointing Corrections for Large Radio Antennas by Joachim Köppen, DF3GJ	233
Azimuth direction display with a rotary encoder for portable uW systems and optical communications by Timm Dunker, DK1ZD	248
Techniques for 47 GHz & up Updates and additions to the 47 GHz transverter on p. 146: RF and NF measurements, a homemade attenuator and feed matching. by Philipp Prinz, DL2AM	257
A Weekend Project: FM VHF/UHF radio station by Jurij Mikeln, S52CQ	266
A Weekend Project: FM VHF/UHF radio station (2) by Jurij Mikeln, S52CQ	276
Software and Weak Signal Communication	
A New Method for Microwave EME Doppler Shift Compensation by Mirek Kasal, OK2AQ and Charlie Suckling, G3WDG	282
On the Theoretical and Practical Limits of Digital QSOs by Klaus von der Heide, DJ5HG	289
<u>Propagation</u>	
How to Measure the Atmospheric Absorption at Radio Wavelengths by Joachim Köppen, DF3GJ	304
50 MHz SSSP Propagation, Part 4: Spanning the Zones by Roger Harrison, VK2ZRH	323
Midlatitude Es: Complex, Not Too Complicated - Part 1 by Jim Kennedy K6MIO/KH6	350
Midlatitude Es: Complex, Not Too Complicated - Part 2 by Jim Kennedy K6MIO/KH6	366