

13 56 Mhz Class D Half Bridge Rf Generator With Drf1400

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13 56 Mhz Class D

Application Note 13.56 MHz, Class D Push-Pull, 2KW RF ...

1356 MHz, Class D Push-Pull, 2KW RF Generator with Microsemi DRF1300 Power MOSFET Hybrid June 10, 2008 By Gui Choi Sr RF Application Engineer The DRF1300/CLASS-D Reference design is available to expedite the evaluation of the DRF1300 push-pull MOSFET hybrid This application note or

13.56 MHz, Class-D Half Bridge, RF Generator with DRF1400

Higher power 40 MHz levels can be achieved by combing multiple modules This application note describes the DRF1400 Class-D HB design and measurements at 1356 MHz, 17KW RF and > 87% efficiency The DRF1400 CLASS-D HB reference design is available from MicThis rosemi as a kit

3kW and 5kW half-bridge Class-D RF generators at 13.56 MHz ...

3kW and 5kW half-bridge Class-D RF generators at 1356 MHz with 89% efficiency and limited frequency agility Abstract DEI / IXYS has developed an RF generator design for very high power at a ISM frequency of 1356MHz, using a pair of DE375-102N12A MOSFETS driven by DEIC420 gate drive ICs, in a half-bridge operating in Class-D with limited

13.56 MHz, Class-D Half Bridge, RF Generator with DRF1400

1356 MHz, Class-D Half Bridge, RF Generator with DRF1400 Gui Choi Sr Application Engineer Phone: 541-382-8028, ext 1205 gchoi@microsemicom INTRODUCTION The DRF1400 is a MOSFET Half Bridge (HB) Hybrid Device which has been optimized for efficiency and reduced system cost; it is targeted at the HF ISM market arena

PRF-1150 1KW 13.56 MHz CLASS E RF GENERATOR ...

PRF-1150 1KW 1356 MHz CLASS E RF GENERATOR EVALUATION MODULE Abstract The PRF-1150 module is a self-contained 1KW 1356MHz RF source The module facilitates operation and evaluation of the DEIC420 RF MOSFET gate driver IC and DE275X2-102N06A RF MOSFET in a practical 1356 MHz RF generator application

A 13.56 MHz Wireless Power Transfer System Without ...

Abstract—A 1356 MHz wireless power transfer (WPT) system is analyzed and implemented in this paper This system consists of five subsystems: a class-D power amplifier, a pair of resonant coils, a rectifier, a DC/DC converter and various loads By analyzing the ...

How to design a 13.56 MHz customized antenna for ST25 NFC ...

A 1356 MHz antenna can be designed with different shapes, depending on the application requirements As explained previously, the main parameter is the equivalent inductance L_A of the antenna around 1356 MHz The stray capacitance is generally in the range of a few pF for typical NFC / RFID products For the most common antenna shapes

PRF-1150 1KW 13.56 MHz Class E RF Generator Module ...

PRF-1150 1KW 1356 MHz CLASS E RF GENERATOR EVALUATION MODULE Abstract The PRF-1150 module is a self-contained 1KW 1356MHz RF source The module facilitates operation and evaluation of the DEIC420 RF MOSFET gate driver IC and DE275X2-102N06A RF MOSFET in a practical 1356 MHz RF generator application

Third Harmonic Filtered 13.56 MHz Push-Pull Class-E Power ...

is unnecessary, and other harmonics than 1356 MHz will be rejected (Class-E/F) The Class-E configuration is thought to be the best solution for the given load specification The

Third harmonic filtered 13.56 MHz push-pull class-E power ...

to the conventional Class-E A symmetrical load network arrangement of one inductor and one capacitor, thereby further reducing the total number of used components, was proposed in [3] Previously implemented Class-E PAs, of comparable output power and with the same output frequency (f_o) of 1356 MHz, can be found in [4], [5] and [6]

High-Power High-Efficiency GaN 13.56 MHz Class-E Power ...

1W Class E at 82% efficiency 134 W Class E at 93% efficiency This work: Achieved output power of 27W at 92% efficiency Successful Class E power amplifier at 1356 MHz GaN has been proven to work very well at this frequency and deliver high power 14

Contactless Smart Key Fob • 2050, 2051, 2052, 2053, 2054

HID's iCLASS® 1356 MHz read/write contactless smart card technology enables numerous applications and supports future growth for an organization's credential program A unique form factor, the iCLASS Key II provides the convenience of an iCLASS contactless read/write smart card that is durable for harsh

SurePower QL10513 13.0kW and 3.5kW, 13.56 MHz RF ...

WWWMKSINSTCOM Power Delivery SurePower® 1356 MHz RF Generators from 35kW to 13kW and higher SurePower® RF Generator 1356 MHz POWER SUPPLIES The SurePower® platform of RF plasma generators is the most advanced class of 1356 MHz generators commercially available

RFID Proximity Reader with Ethernet Interface ID CPR50.10 ...

RFID Proximity Reader with Ethernet Interface ID CPR5010-E (1356 MHz) FEATURES - Fast 10BASE-T/100BASE-TX Ethernet Interface - Power over Ethernet - Encrypted data transfer via Ethernet - Operation modes °Polling Mode " and °Notification Mode " - Suitable for indoor- and outdoor use

(IP54) - Optional available: remote relay ...

PRF-1150 1KW 13.56 MHz Class E RF Generator Evaluation ...

PRF-1150 1KW 1356 MHz Class E RF Generator Evaluation Module Matthew W Vania Directed Energy, Inc Abstract The PRF-1150 module is a self-contained 1KW 1356MHz RF source The module facilitates operation and evaluation of the

A 13.56 MHz Multiport-Wireless-Coupled (MWC) Battery ...

measurement from low frequencies (mHz) to high frequencies (100kHz or higher) This paper presents a 1356 MHz multiport wireless-coupled (MWC) battery balancer with the capability of performing EIS up to 500 kHz The MHz MWC balancer architecture consists of multiple high frequency current mode Class-D inverters and a MWC transformer with

RF Power LDMOS Transistors High Ruggedness N-Channel ...

voltage range for improved Class C operation Included in NXP product longevity program with assured supply for a minimum of 15 years after launch Typical Applications Industrial, scientific, medical (ISM) VDD =50Vdc, IDQ = 100 mA, f = 1356 MHz, CW D MRF300AN MRF300BN 9 RF Device Data

TAS6424L-Q1 27-W, 2-MHz Digital Input 4-Channel ...

input Class-D audio amplifier designed for use in automotive head units and external amplifier modules The device provides four channels at 27 W into 4 Ω at 10% THD+N and 27 W into 2 Ω at 10% THD+N from a 144 V supply The Class-D topology dramatically improves efficiency over traditional linear amplifier solutions The output switching

RFP13.56-100XR 13.56MHz 100W Class A/AB High ...

RFP1356-100XR 1356MHz 100W Class A/AB High Performance Amplifier Class A/AB 100W XR-rated amplifier 1356MHz ISM band 53dB typical gain Temperature-compensated bias TTL disable Current sense resistor Available with heatsink and fan The RFP1356-100XR is a high gain Class A/AB XR-rated amplifier designed specifically for the 1356MHz ISM band