

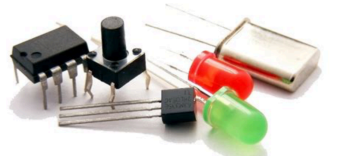
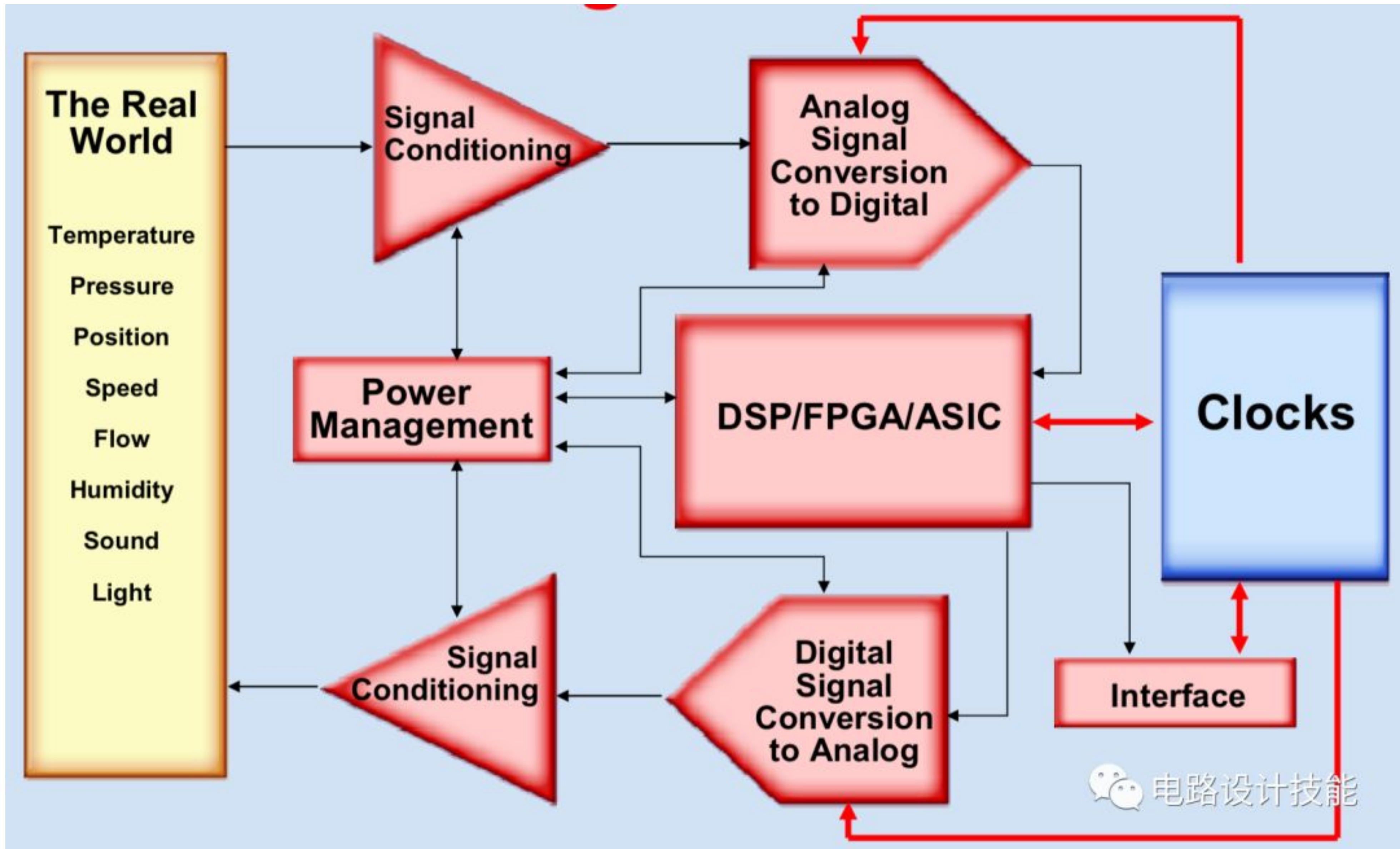
200.0 mV/div

200.0 mV/div

500 ps/div

200.0 mV/div

时钟



全部 物料编号/关键字

有库存 RoHS

所有产品 > 无源元件 > 频率控制器和定时装置

频率控制器和定时装置

产品 (139,508) 数据表 (33,432) 图片 (1,271) 最新产品

频率控制器和定时装置类型

列表 目视



晶体  
(41,763)



振荡器  
(96,519)



谐振器  
(1,226)

在结果中搜索



有库存  在售  符合RoHS  
 正常库存  新产品

类别  无源元件 >  频率控制器和定时装置

可用过滤器 139,508 个匹配项

启用智能过滤

制造商

产品类型

频率

频率稳定性

容差

端接类型

封装 / 箱体

最小工作温度

最大工作温度

资格

封装

- 最受欢迎 ----
- ABRACON
  - ECS
  - Epson
  - Kyocera
  - CTS
  - TXC Corporation

- Clock Oscillators
- Crystals
- MEMS Clock Oscillators
- OCXO Oscillators
- Programmable Oscillators
- Programmable VCXO Oscillators
- Resonators

- 0 kHz
- 0 MHz
- 29.1 uHz to 977 Hz
- 1 Hz
- 1.024 Hz
- 2.6 Hz
- 17.734475 Hz

- 200 PPM, - 100 PPM
- 170 PPM to + 10 PPM
- 130 PPM to + 30 PPM
- 100 PPM
- 60 PPM to + 30 PPM
- 50 PPM to + 50 PPM
- 20 PPM to + 50 PPM

- 9 PPM, + 11 PPM
- 5 PPM
- 7 PPM
- 8 PPM
- 10 PPM
- 14 PPM
- 15 PPM

- Axial
- Radial
- SMA
- SMD/SMT
- Solder Pad
- Through Hole

- 
- 0.75 mm x 0.67 mm
- 1.2 mm x 1 mm
- 1.28 mm x 0.8 mm
- 1.5 mm x 0.8 mm
- 1.54 mm x 0.84 mm
- 1.6 mm x 1 mm

- 0 C
- 55 C
- 55 C
- 50 C
- 45 C
- 40 C
- 35 C

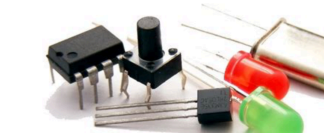
- + 50 C
- + 55 C
- + 60 C
- + 70 C
- + 75 C
- + 80 C
- + 85 C

- AEC-Q100
- AEC-Q200

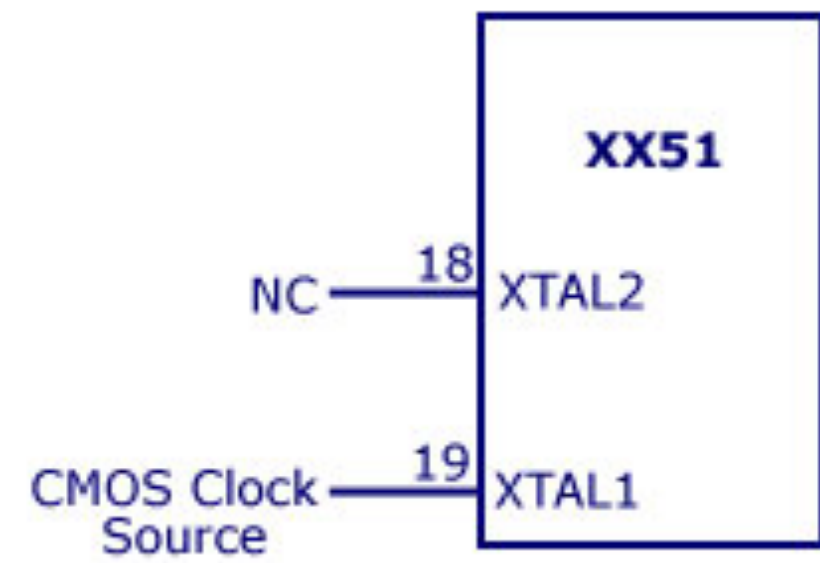
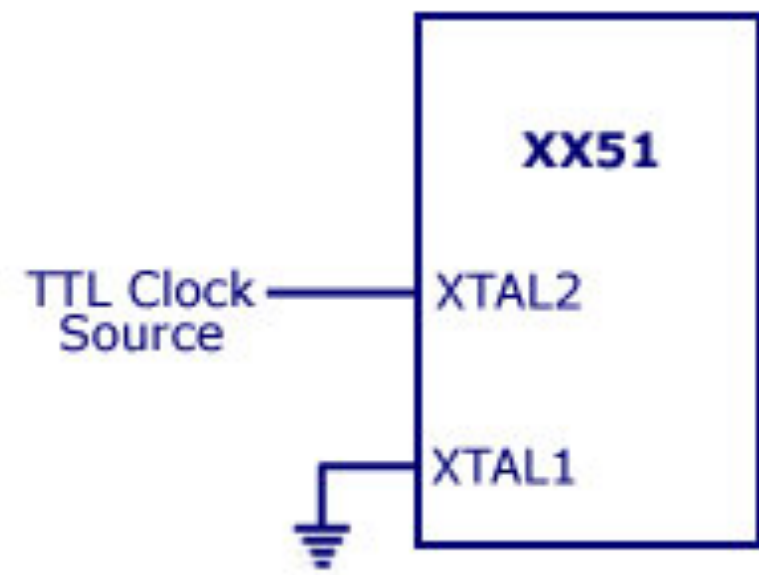
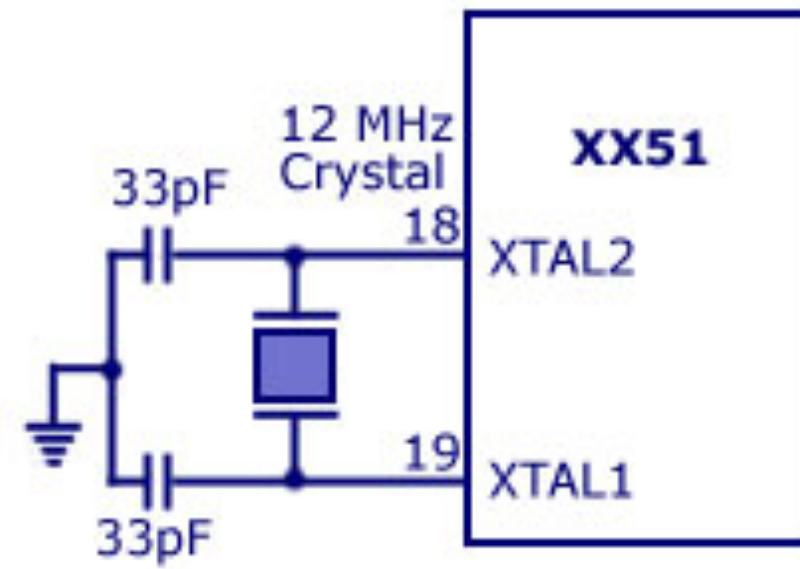
- Ammo Pack
- Bulk
- Cut Tape
- Gel Pack
- MouseReel
- Reel
- Spool

应用过滤器

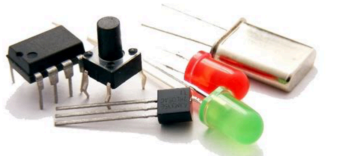
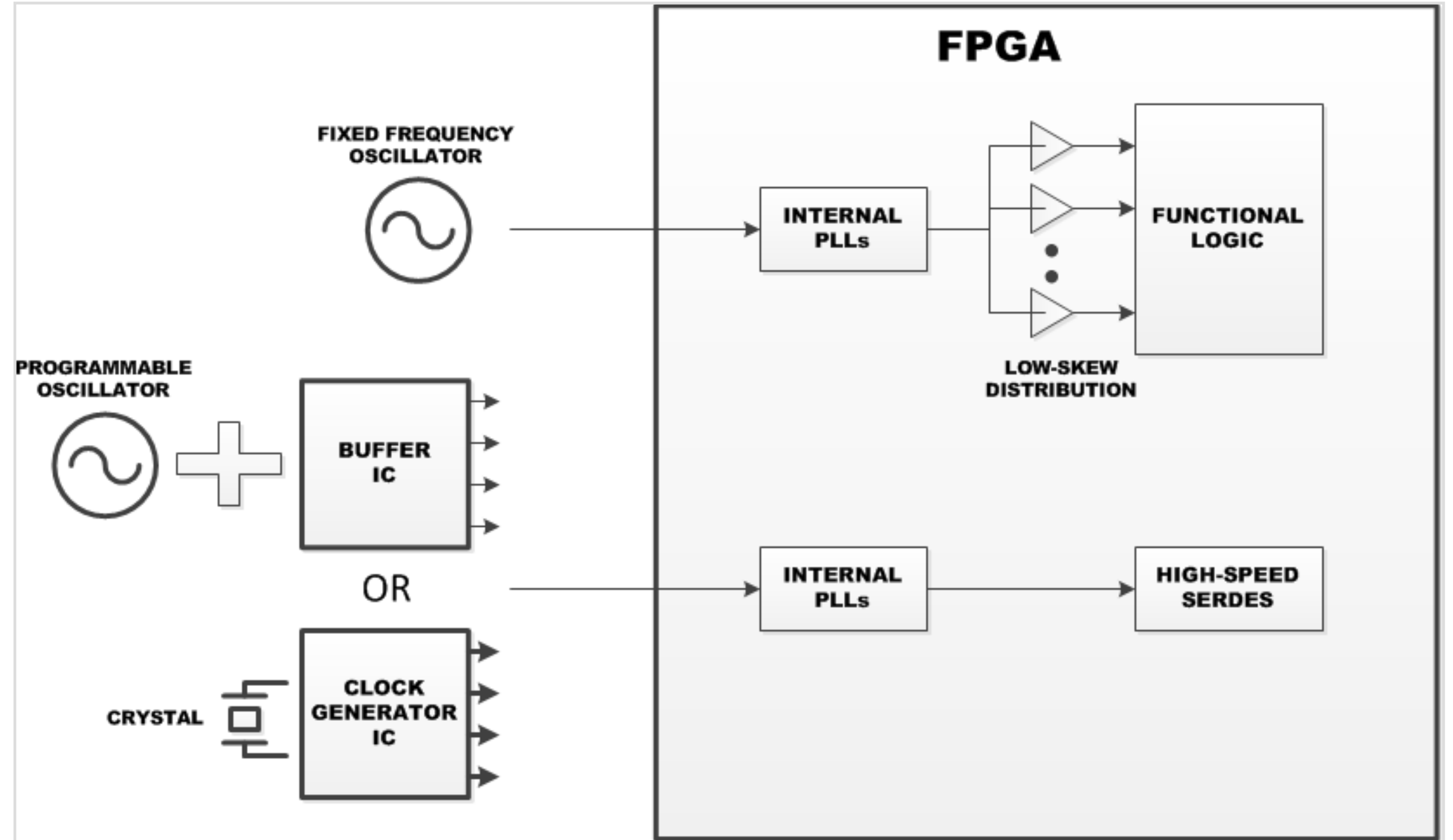
应用过



### 8051 Clock Circuit



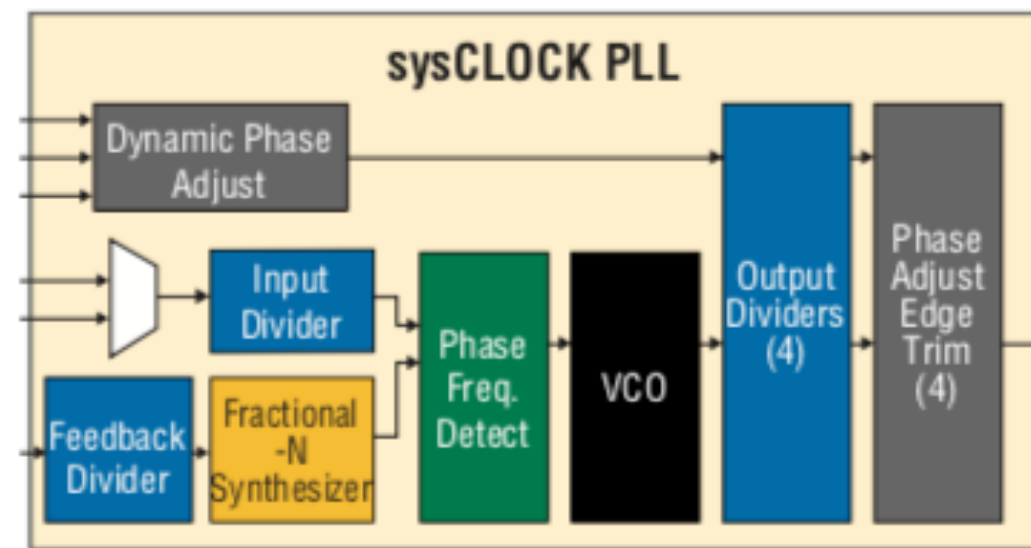
www.CircuitsToday.com



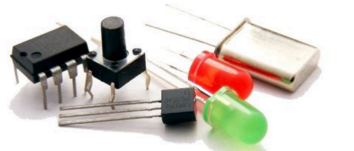
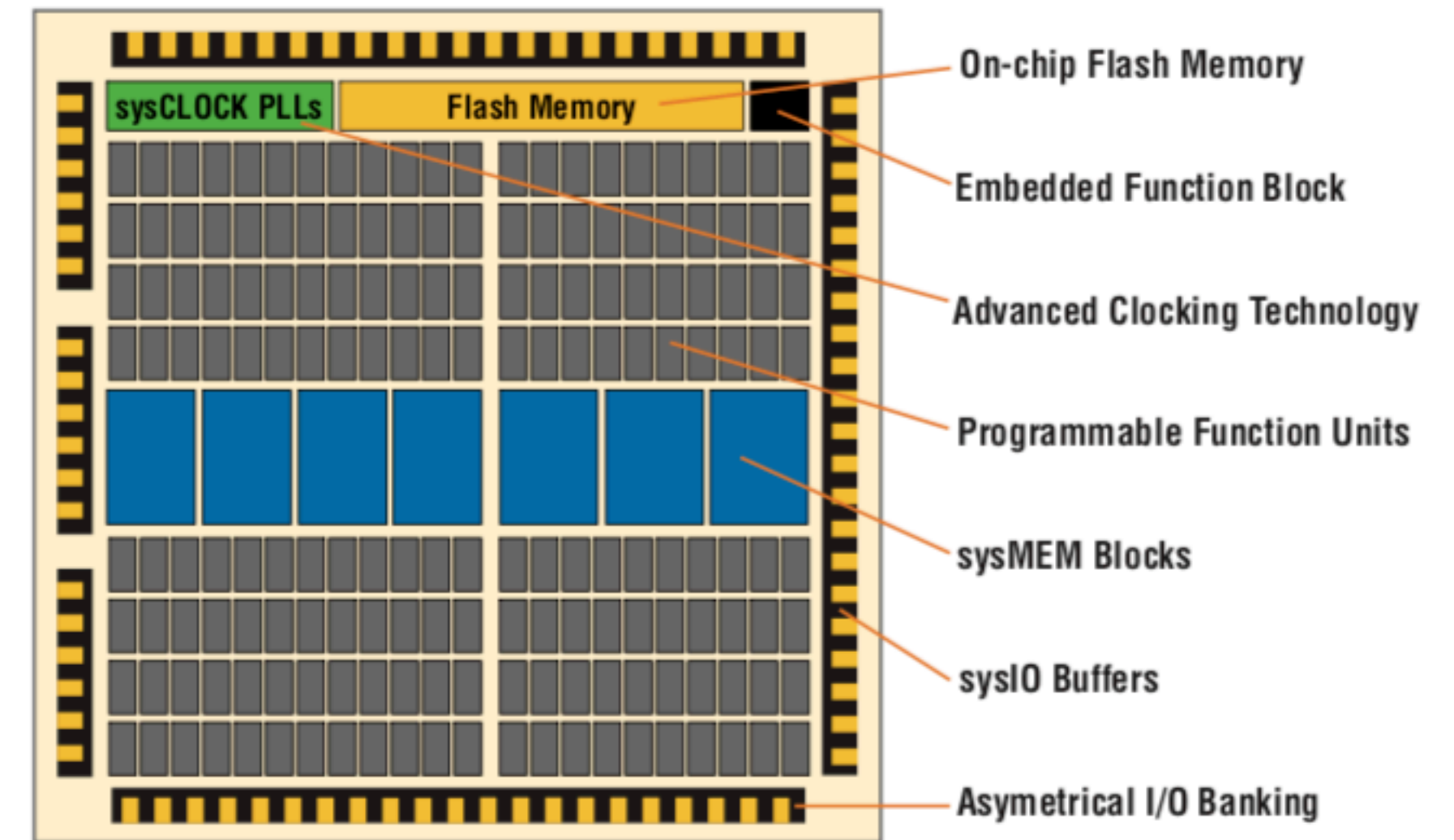


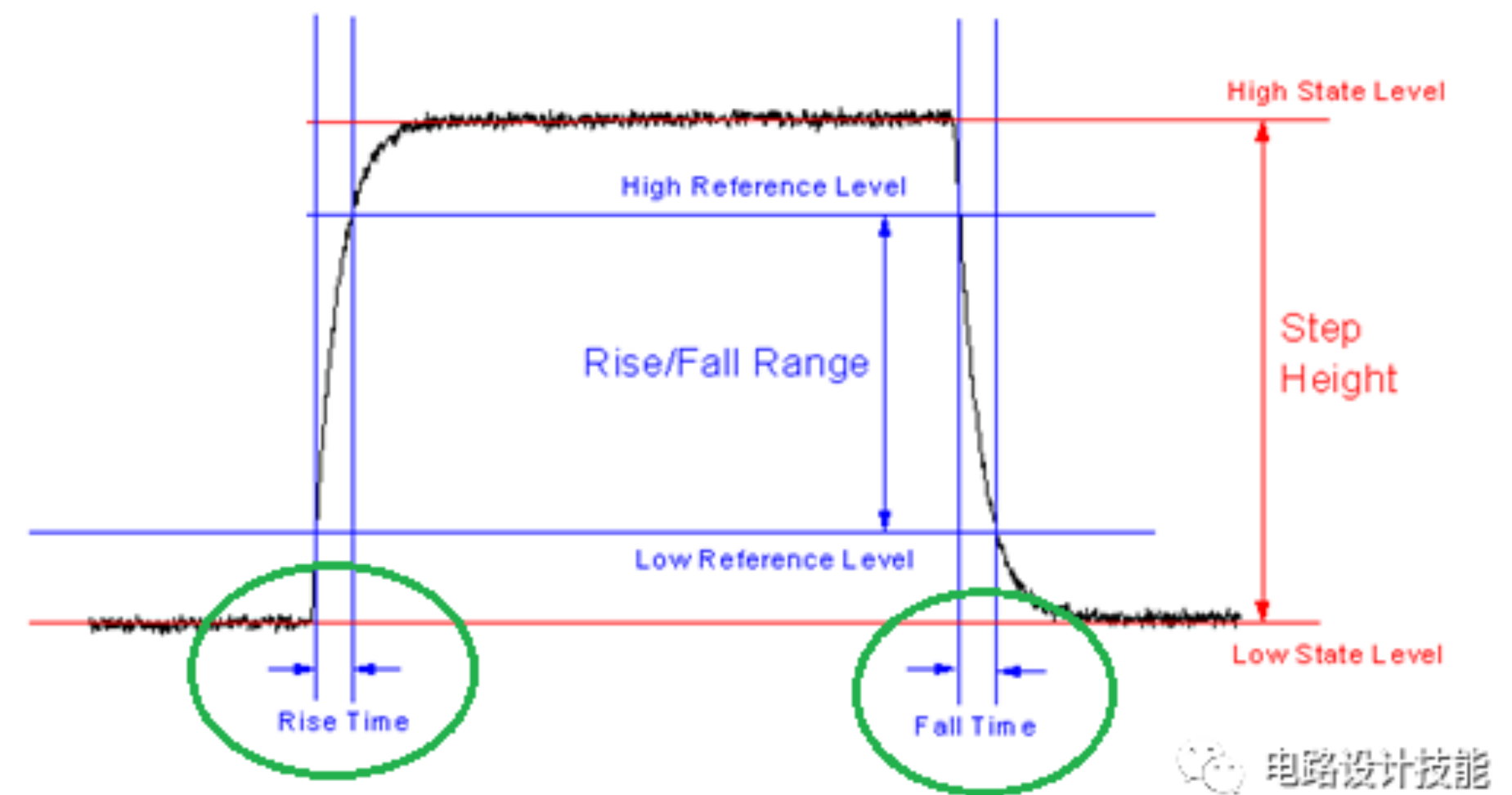
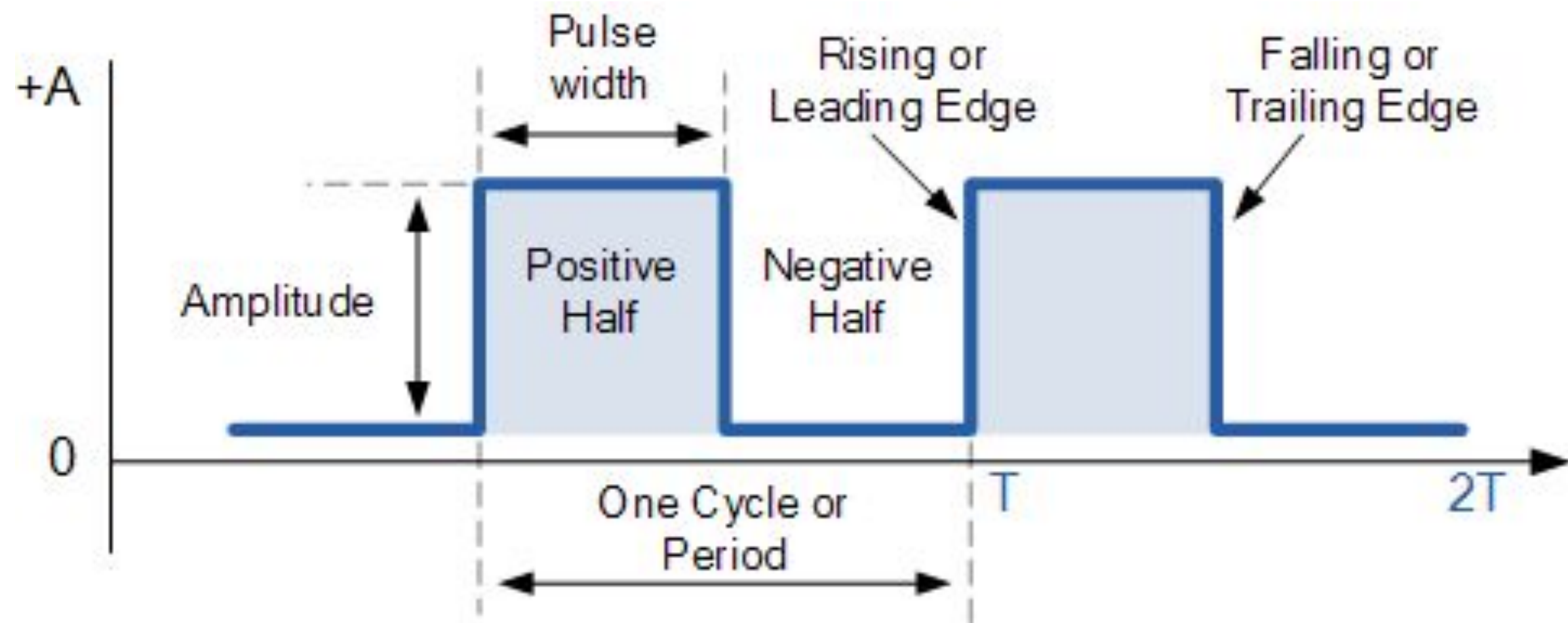
## Advanced Clocking Technology

- Full featured PLL
  - Fractional division improves frequency synthesis
  - 10 - 400 MHz operation
- On-chip oscillator with +/-5% accuracy and 2-133MHz operation

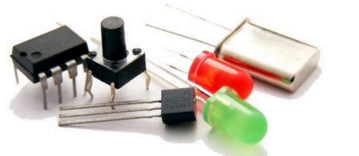
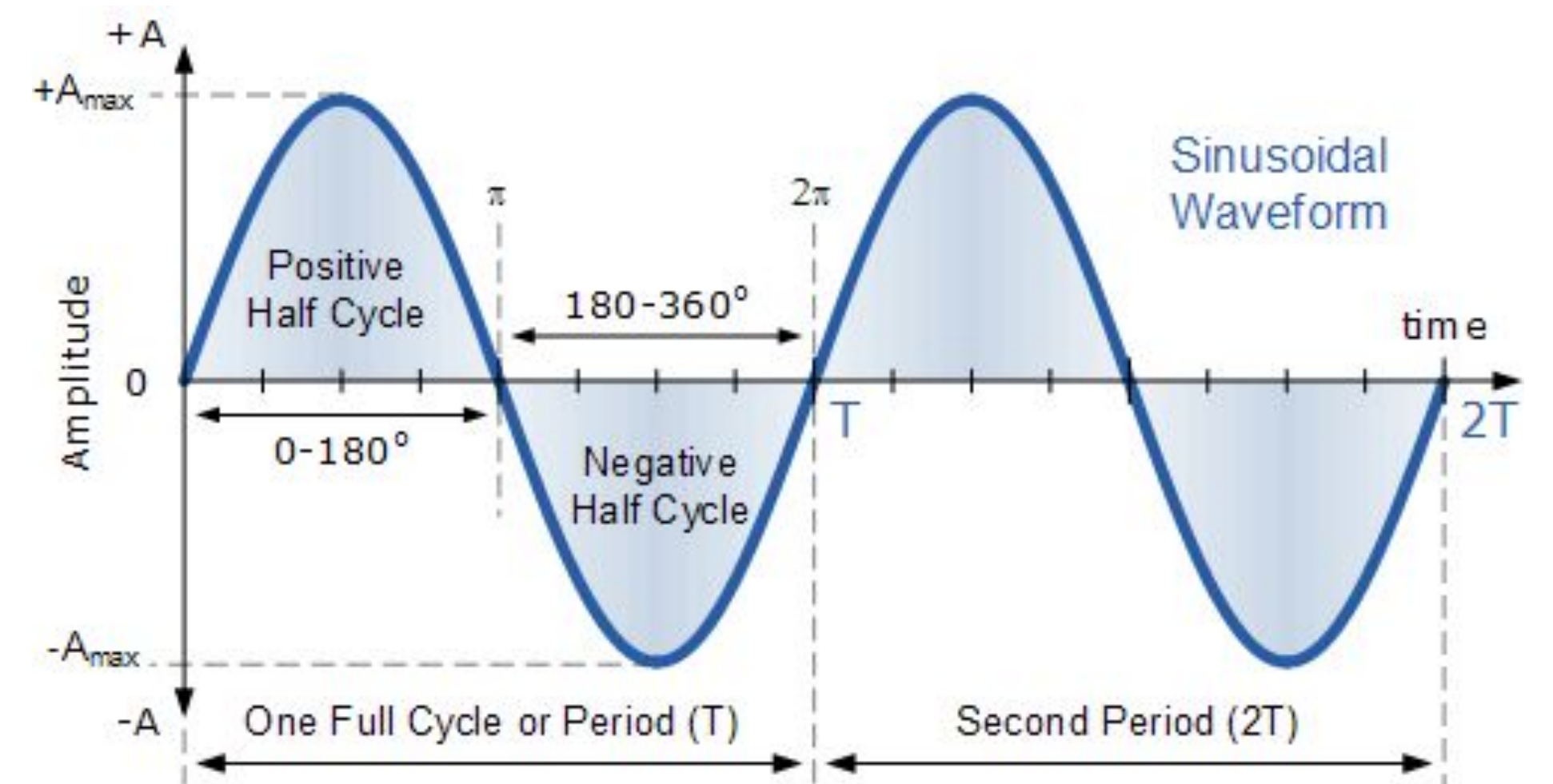
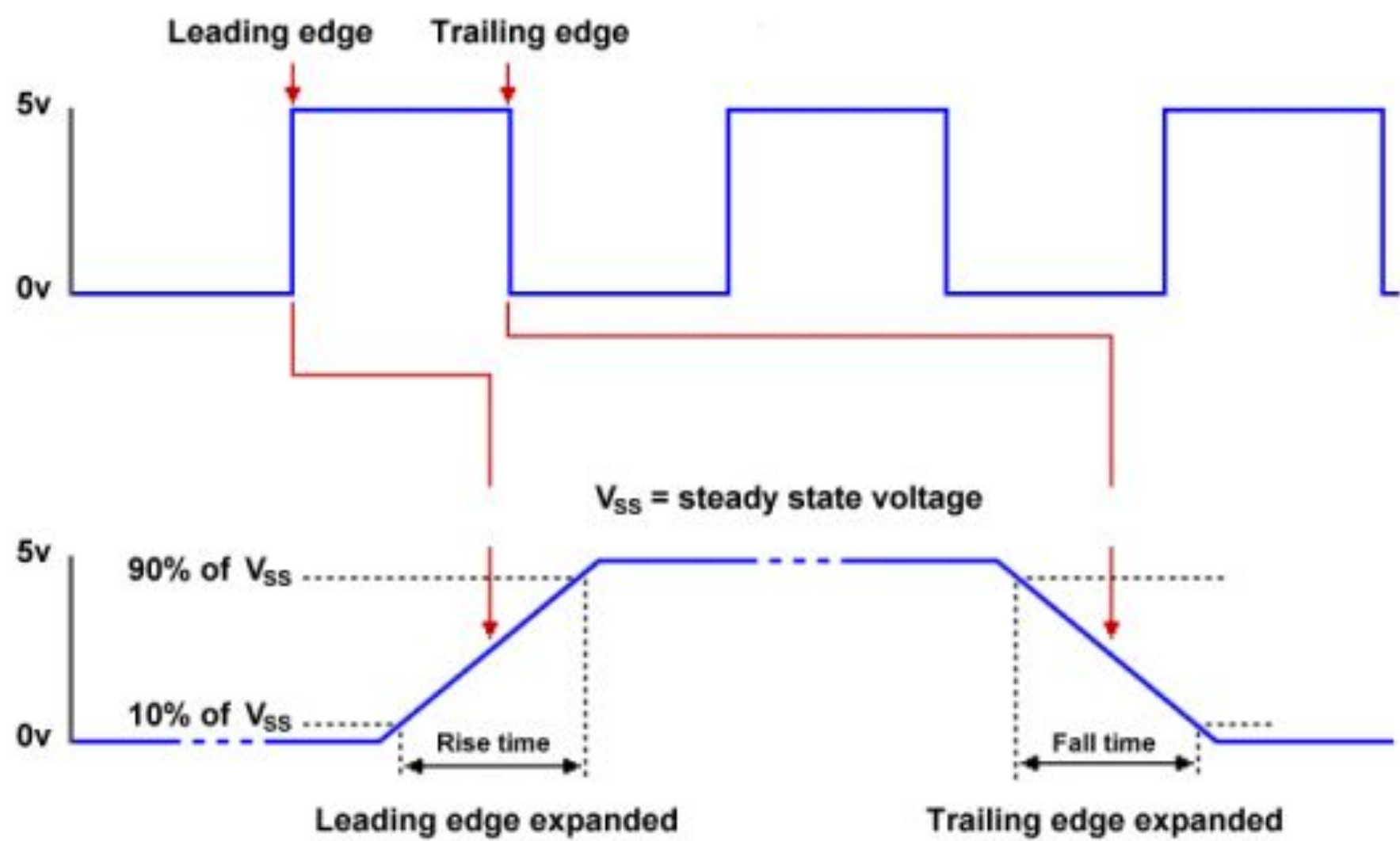


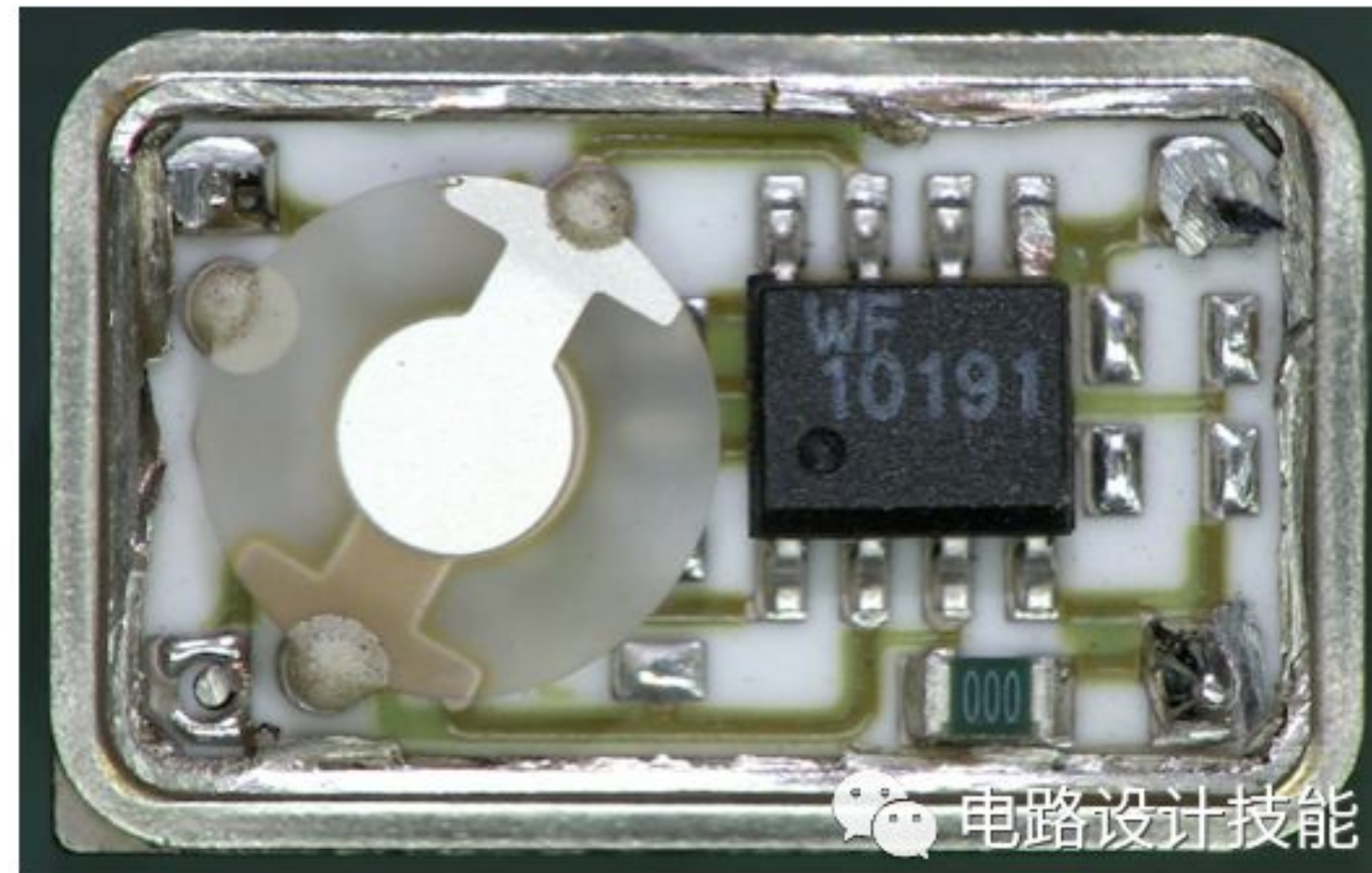
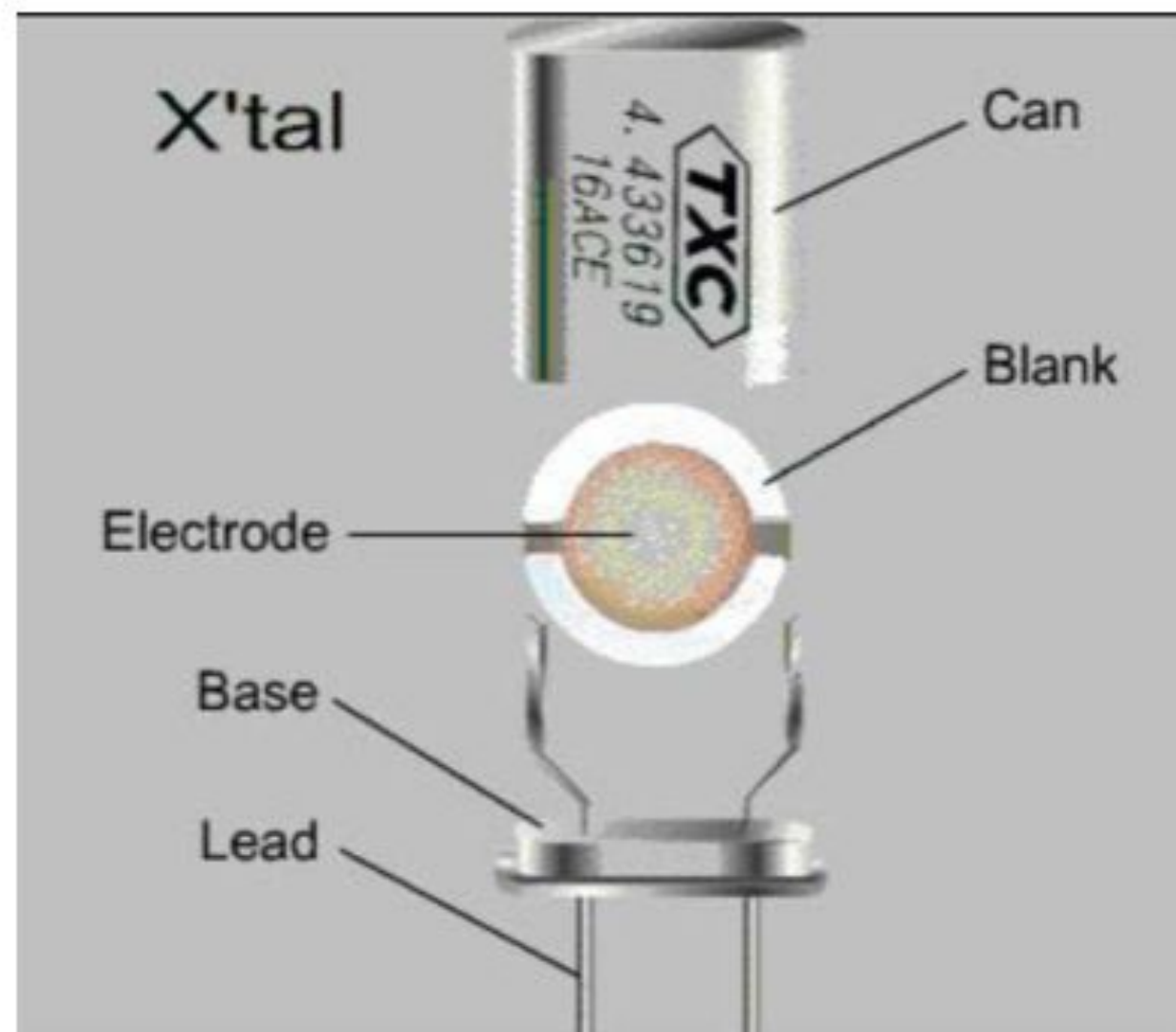
## MachXO2 Block Diagram

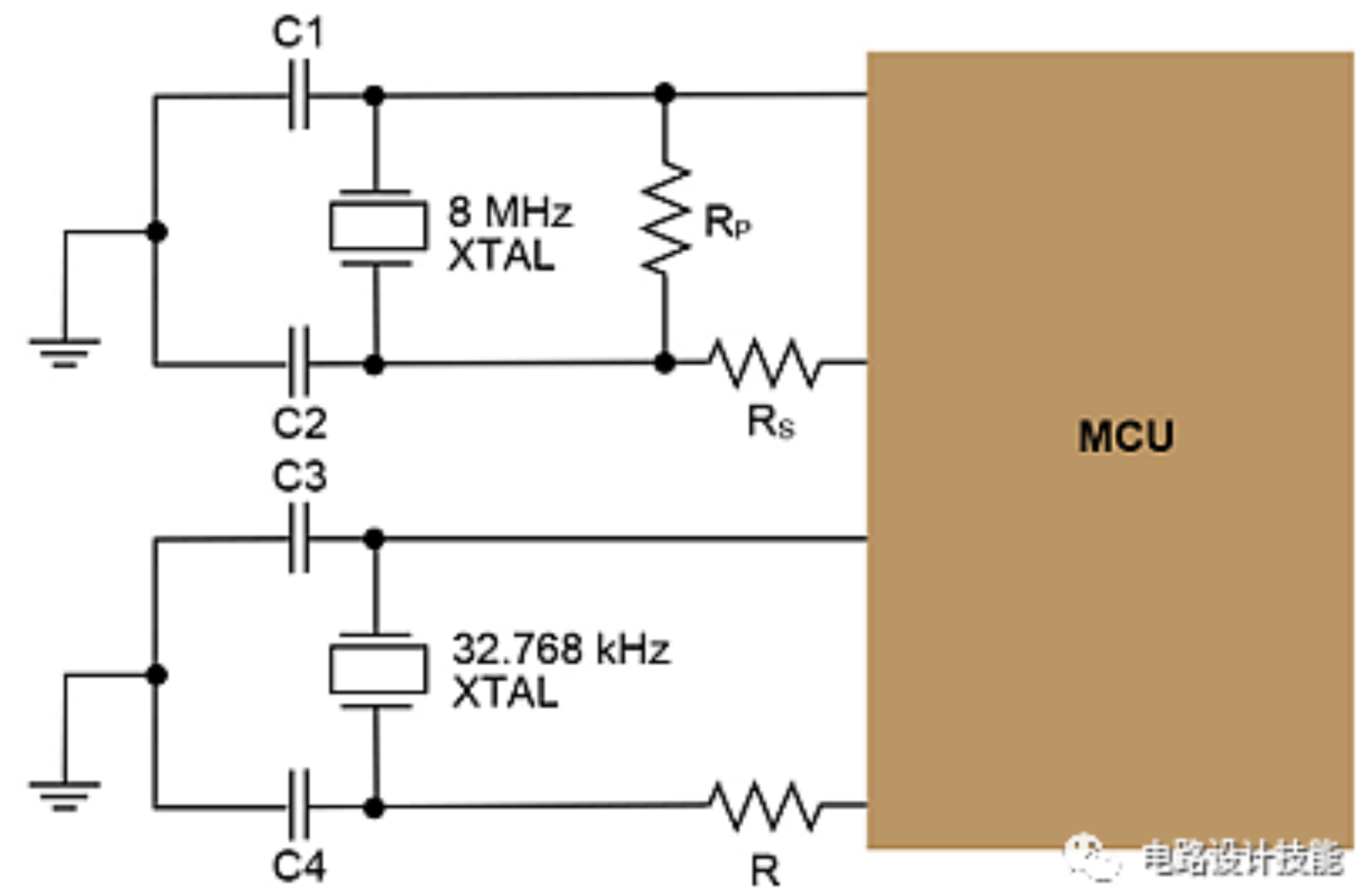
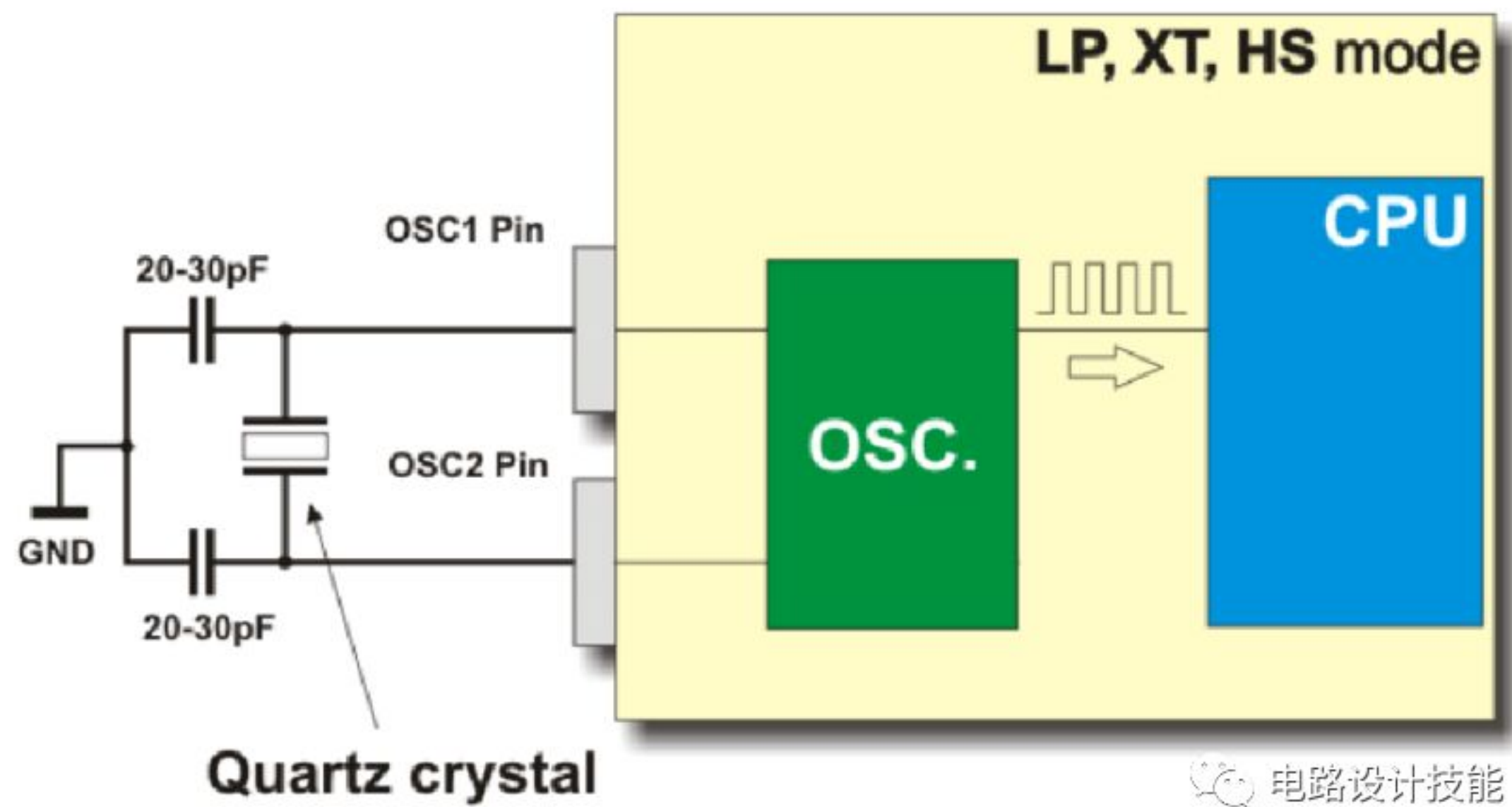




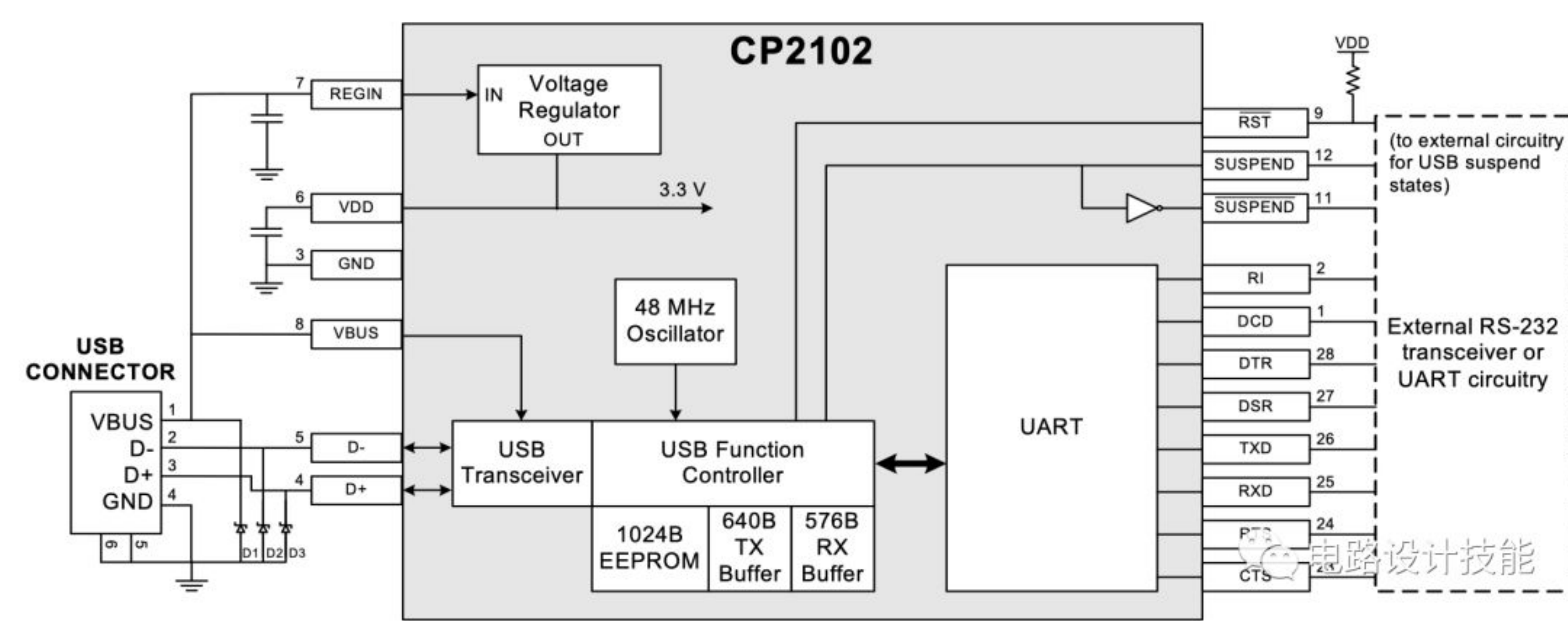
电路设计技能





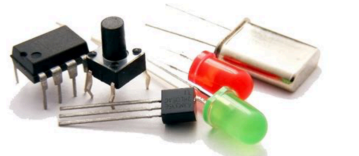
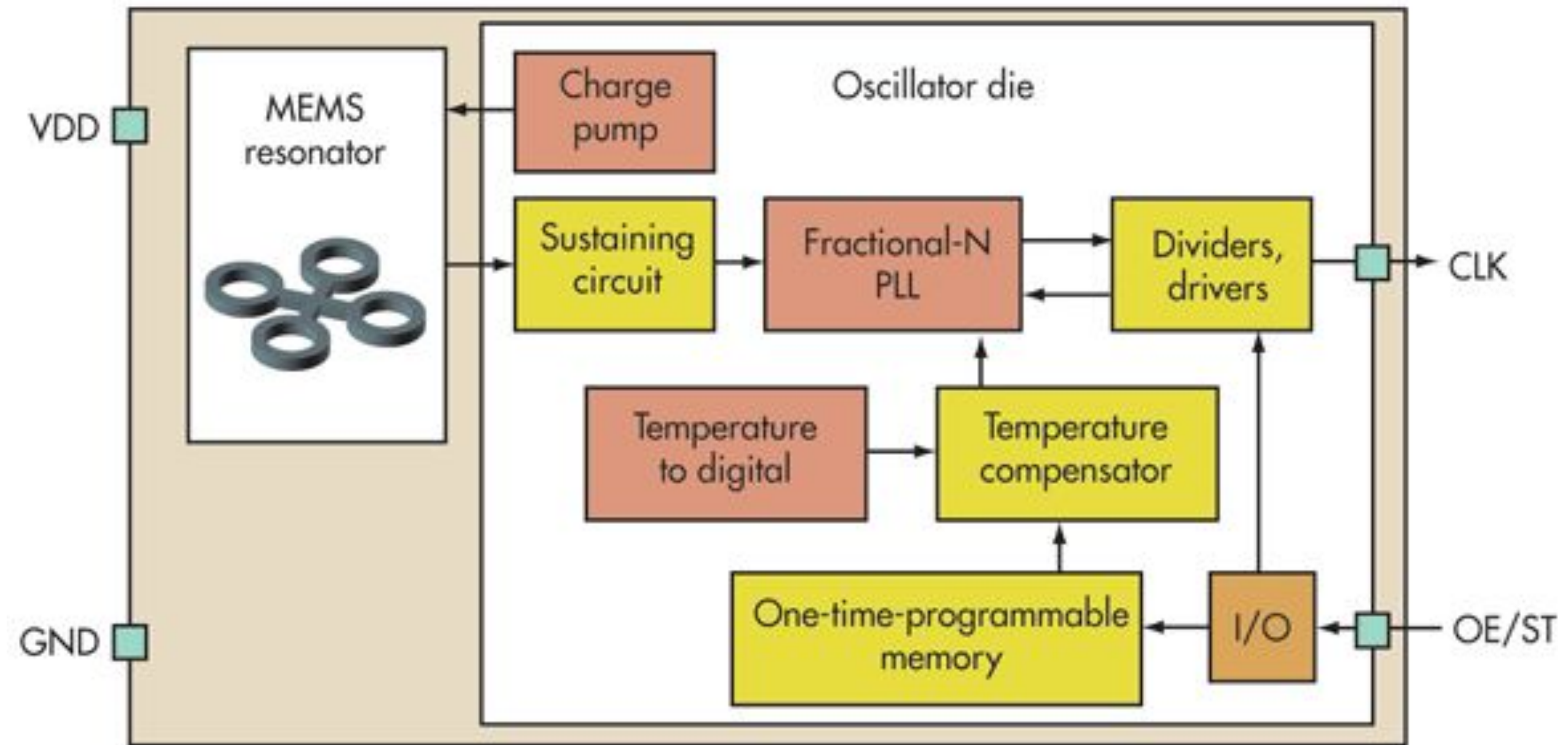






内部RC振荡器

MEMS振荡器



有库存     在售     符合RoHS  
 正常库存     新产品

类别  无源元件 >  频率控制器和定时装置

可用过滤器 139,508 个匹配项 **1313 remaining**

启用智能过滤 [?](#)

| 制造商   | 产品类型   | 频率   | 频率稳定性  | 容差  | 端接类型  | 封装 / 箱体  |
|---|--|--|--|---|---|--|
| <input checked="" type="checkbox"/> Seiko Instruments<br><input type="checkbox"/> Semtech<br><input type="checkbox"/> Silego<br><input type="checkbox"/> Silicon Laboratories<br><input type="checkbox"/> SiTime<br><input type="checkbox"/> Skyworks<br><input type="checkbox"/> TDK | <input type="checkbox"/> Clock Oscillators<br><input type="checkbox"/> Crystals<br><input checked="" type="checkbox"/> MEMS Clock Oscillators<br><input type="checkbox"/> OCXO Oscillators<br><input type="checkbox"/> Programmable Oscillators<br><input type="checkbox"/> Programmable VCXO Oscillators<br><input type="checkbox"/> Resonators<br><a href="#">重置</a> | <input type="text" value="375 MHz"/> <input type="text" value="420 MHz"/><br>375 MHz to 420 MHz<br><input type="text" value="380 MHz"/> <input type="text" value="440 MHz"/><br>380 MHz to 440 MHz<br><input type="text" value="382.464 MHz"/> <input type="text" value="382.464 MHz"/><br>382.464 MHz<br><input type="text" value="384 MHz"/> <input type="text" value="384 MHz"/><br>384 MHz | <input type="text" value="- 200 PPM, - 100 PPM"/> <input type="text" value="170 PPM to + 10 PPM"/><br>- 200 PPM, - 100 PPM<br>- 170 PPM to + 10 PPM<br><input type="text" value="- 130 PPM to + 30 PPM"/> <input type="text" value="100 PPM"/><br>- 130 PPM to + 30 PPM<br>- 100 PPM<br><input type="text" value="- 60 PPM to + 30 PPM"/> <input type="text" value="50 PPM to + 50 PPM"/><br>- 60 PPM to + 30 PPM<br>- 50 PPM to + 50 PPM<br><input type="text" value="- 20 PPM to + 50 PPM"/> <input type="text" value="50 PPM"/><br>- 20 PPM to + 50 PPM | <input type="text" value="- 9 PPM, + 11 PPM"/> <input type="text" value="5 PPM"/><br>- 9 PPM, + 11 PPM<br><input type="text" value="7 PPM"/> <input type="text" value="8 PPM"/><br>7 PPM<br>8 PPM<br><input type="text" value="10 PPM"/> <input type="text" value="14 PPM"/><br>10 PPM<br>14 PPM<br><input type="text" value="15 PPM"/> <input type="text" value="15 PPM"/><br>15 PPM | <input type="text" value="Axial"/> <input type="text" value="Radial"/> <input type="text" value="SMA"/> <input type="text" value="SMD/SMT"/> <input type="text" value="Solder Pad"/> <input type="text" value="Through Hole"/><br>Axial<br>Radial<br>SMA<br>SMD/SMT<br>Solder Pad<br>Through Hole | <input type="text" value="0.75 mm x 0.67 mm"/> <input type="text" value="1.2 mm x 1 mm"/> <input type="text" value="1.28 mm x 0.8 mm"/> <input type="text" value="1.5 mm x 0.8 mm"/> <input type="text" value="1.54 mm x 0.84 mm"/> <input type="text" value="1.6 mm x 1 mm"/><br>-<br>0.75 mm x 0.67 mm<br>1.2 mm x 1 mm<br>1.28 mm x 0.8 mm<br>1.5 mm x 0.8 mm<br>1.54 mm x 0.84 mm<br>1.6 mm x 1 mm |

[应用过滤器](#)

[购买所选商品](#)    [对比所选商品](#)    一次最多对比 20 个零件.    页面: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) ... [5581](#) [下一页](#)

| 选择                       | 图像  | Mouser 零件编号        | 制造商零件编号        | 制造商               | 描述   | 数据表                 | 供货情况            | 单价 (含16%增值税)   | 数量                   | RoHS   | 产品类型                     | 频率            | 频率稳定性  | 容差 | 端接类型    | 封装 / 箱体  | 最小工作温度 | 最大工作温度 | 资格 |
|--------------------------|---|--------------------|----------------|-------------------|--|---------------------|-----------------|--|----------------------|--|--------------------------|---------------|--------|----|---------|----------|--------|--------|----|
| <input type="checkbox"/> |  | 595-LMK61E07-SIAT  | LMK61E07-SIAT  | Texas Instruments | 可编程振荡器<br>Ultra-Low Jitter Programmable Oscillator with Internal EEPROM<br>6-QFM -40 to 85<br><a href="#">了解更多</a> | <a href="#">数据表</a> | 300 有库存<br>备用包装 | 剪切带<br>1: ¥180.8672<br>5: ¥173.3736<br>10: ¥166.8312<br>25: ¥159.3376<br>卷轴<br>250: ¥135.9056<br>500: <a href="#">查看</a> | <input type="text"/> |  <a href="#">详细信息</a> | Programmable Oscillators | 1 GHz         | 25 PPM |    | SMD/SMT | QFM-6    | - 40 C | + 85 C |    |
| <input type="checkbox"/> |  | 634-570BCB001970DG | 570BCB001970DG | Silicon Labs      | 可编程振荡器<br>Differential/single-   | <a href="#">数据表</a> | 50 有库存          | 50: ¥346.1208<br>100: ¥278.2144  | <input type="text"/> |  <a href="#">详细信息</a> | Programmable Oscillators | 10 MHz to 810 | 20 PPM |    | SMD/SMT | 5 mm x 7 | - 40 C | + 85 C |    |



## Search By PartNo

Enter Part Number



## Filter Parameters

## Frequency



All kHz MHz

Frequency



## Parameters

Oscillator Type ▾

Output Type ▾

Frequency Stability (PPM) ▾

Temperature (C) ▾

Voltage (V) ▾

Package Size (mm) ▾

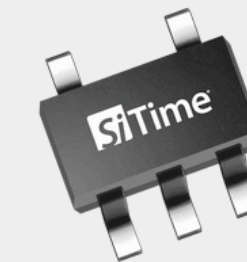
Phase Jitter (ps) ▾

Clear

## 55 devices found

| Device   | Type  | Frequency   | Freq stability                       | Temp                                       | Voltage             | Package size  | Output              | Phase Jitter | Pull range | Spread |
|--|-------|---|--------------------------------------|--|---------------------|---|---------------------|--------------|------------|--------|
| <a href="#">SIT1532</a><br><a href="#">Quick Links</a> | 32kHz | 32.768 kHz  | ±75PPM<br>±100PPM                    | -10 to 70°C<br>-40 to 85°C                 | 1.2 to 3.63V        | 1.5x0.8mm   | NanoDrive<br>LVCMOS | n/a          | n/a        | n/a    |
| <a href="#">SIT1533</a><br><a href="#">Quick Links</a> | 32kHz | 32.768 kHz  | ±75PPM<br>±100PPM                    | -10 to 70°C<br>-40 to 85°C                 | 1.2 to 3.63V        | 2.0x1.2mm   | NanoDrive<br>LVCMOS | n/a          | n/a        | n/a    |
| <a href="#">SIT1630</a><br><a href="#">Quick Links</a> | 32kHz | <b>2 freq</b><br> kHz    | ±75PPM<br>±100PPM<br>±150PPM         | -10 to 70°C<br>-40 to 105°C<br>-55 to 85°C | 1.5 to 3.63V        | SOT23-5(2.9x2.8)mm<br>2.0x1.2mm                               | LVC MOS             | n/a          | n/a        | n/a    |
| <a href="#">SIT1534</a><br><a href="#">Quick Links</a> | 32kHz | <b>16 freq</b><br> kHz   | ±75PPM<br>±100PPM<br>±150PPM         | -10 to 70°C<br>-40 to 85°C<br>-55 to 85°C  | 1.2 to 3.63V        | 1.5x0.8mm<br>2.0x1.2mm  | NanoDrive<br>LVCMOS | n/a          | n/a        | n/a    |
| <a href="#">SIT1552</a><br><a href="#">Quick Links</a> | 32kHz | 32.768 kHz  | ±20PPM<br>±10PPM<br>±5PPM            | 0 to 70°C<br>-40 to 85°C                   | 1.5 to 3.63V        | 1.5x0.8mm   | NanoDrive<br>LVCMOS | n/a          | n/a        | n/a    |
| <a href="#">SIT1566</a><br><a href="#">Quick Links</a> | 32kHz | 32.768 kHz  | ±3PPM<br>±5PPM                       | -20 to 70°C<br>-40 to 85°C                 | 1.8 V±10%           | 1.5x0.8mm   | LVC MOS             | n/a          | n/a        | n/a    |
| <a href="#">SIT1568</a><br><a href="#">Quick Links</a> | 32kHz | 32.768 kHz  | ±5PPM                                | -20 to 70°C<br>-40 to 85°C                 | 1.8 V±10%           | 1.5x0.8mm   | LVC MOS             | n/a          | n/a        | n/a    |
| <a href="#">SIT1569</a><br><a href="#">Quick Links</a> | TCXO  | 0.001 - 462.5 kHz   | ±50PPM                               | -20 to 70°C<br>-40 to 85°C                 | 1.8,<br>2.5 to 3.3V | 1.5x0.8mm   | LVC MOS             | n/a          | n/a        | n/a    |
| <a href="#">SIT1576</a><br><a href="#">Quick Links</a> | TCXO  | 0.001 - 2500 kHz  | ±20PPM<br>±5PPM                      | -20 to 70°C<br>-40 to 85°C                 | 1.8 V±10%           | 1.5x0.8mm   | LVC MOS             | n/a          | n/a        | n/a    |
| <a href="#">SIT1579</a><br><a href="#">Quick Links</a> | TCXO  | 0.001 - 2500 kHz  | ±50PPM                               | -20 to 70°C<br>-40 to 85°C                 | 1.62 to 3.63V       | 1.5x0.8mm   | LVC MOS             | n/a          | n/a        | n/a    |
| <a href="#">SIT1602</a><br><a href="#">Quick Links</a> | XO    | <b>52 freq</b><br> MHz | ±20PPM<br>±25PPM<br>±50PPM           | -20 to 70°C<br>-40 to 85°C                 | 1.8,<br>2.5 to 3.3V | 2.0x1.6mm<br>2.5x2.0mm<br>3.2x2.5mm<br>5.0x3.2mm<br>7.0x5.0mm | LVC MOS             | <2ps         | n/a        | n/a    |
| <a href="#">SIT1618</a><br><a href="#">Quick Links</a> | XO    | <b>33 freq</b><br> MHz | ±20PPM<br>±25PPM<br>±30PPM<br>±50PPM | -40 to 105°C<br>-40 to 125°C               | 1.8,<br>2.5 to 3.3V | 2.0x1.6mm<br>2.5x2.0mm<br>3.2x2.5mm<br>5.0x3.2mm<br>7.0x5.0mm | LVC MOS             | <2ps         | n/a        | n/a    |

## SIT2001

[Download Data Sheet](#) 

 **FIELD PROGRAMMABLE** | [Learn More](#)

The SIT2001B is a SOT23 oscillator that offers the best board-level solder-joint reliability and enables low-cost, optical-ONLY board-level inspection. This device features the widest frequency range, the lowest power consumption, the best stability and the shortest lead time for consumer, networking, industrial and other applications.

For the same device in an SMD packages, refer to the [SIT8008B](#) oscillator.

## ONLINE TOOLS

+ [Ordering Information](#)+ [Part Number Generator](#)+ [Part Number Decoder](#)+ [Inventory Search](#)

|                                  |                             |
|----------------------------------|-----------------------------|
| FlexEdge™ Rise/Fall Time         | Yes                         |
| Frequency                        | 1 to 110 MHz                |
| Frequency Stability (ppm)        | ±20, ±25, ±50               |
| Operating Temperature Range (°C) | -20 to +70, -40 to +85      |
| Oscillator Type                  | XO-SE                       |
| Output type                      | LVC MOS                     |
| Package Type (mm <sup>2</sup> )  | SOT23(2.9x2.8)              |
| Phase Jitter (RMS)               | 1.3 ps                      |
| Features                         | Field programmable, SOT23-5 |
| Voltage Supply (V)               | 1.8, 2.5 to 3.3             |
| Availability                     | Production                  |

## Features &amp; Benefits

## Configurable feature sets

- Any frequency between 1 to 110 MHz with 6 decimal places of accuracy
- Stability from ±20 ppm to ±50 ppm
- Industrial or extended commercial temp.
- 1.8 V or 2.5 V to 3.3 V supply voltage:
- Customize specification for optimal system performance
- Use same base device for many design, reducing qualification needs;

## SOT23 package

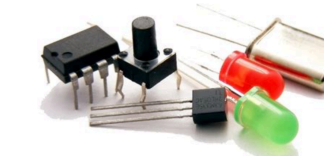
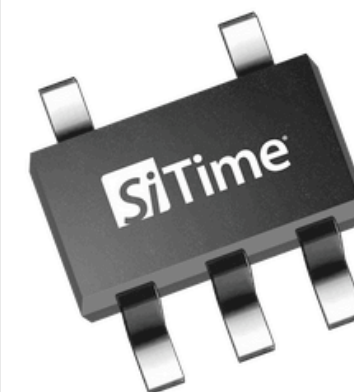
- Lowest cost package
- Best board-level solder joint reliability
- Easy optical only board-level inspection of solder joints;

## FlexEdge™ drive strength

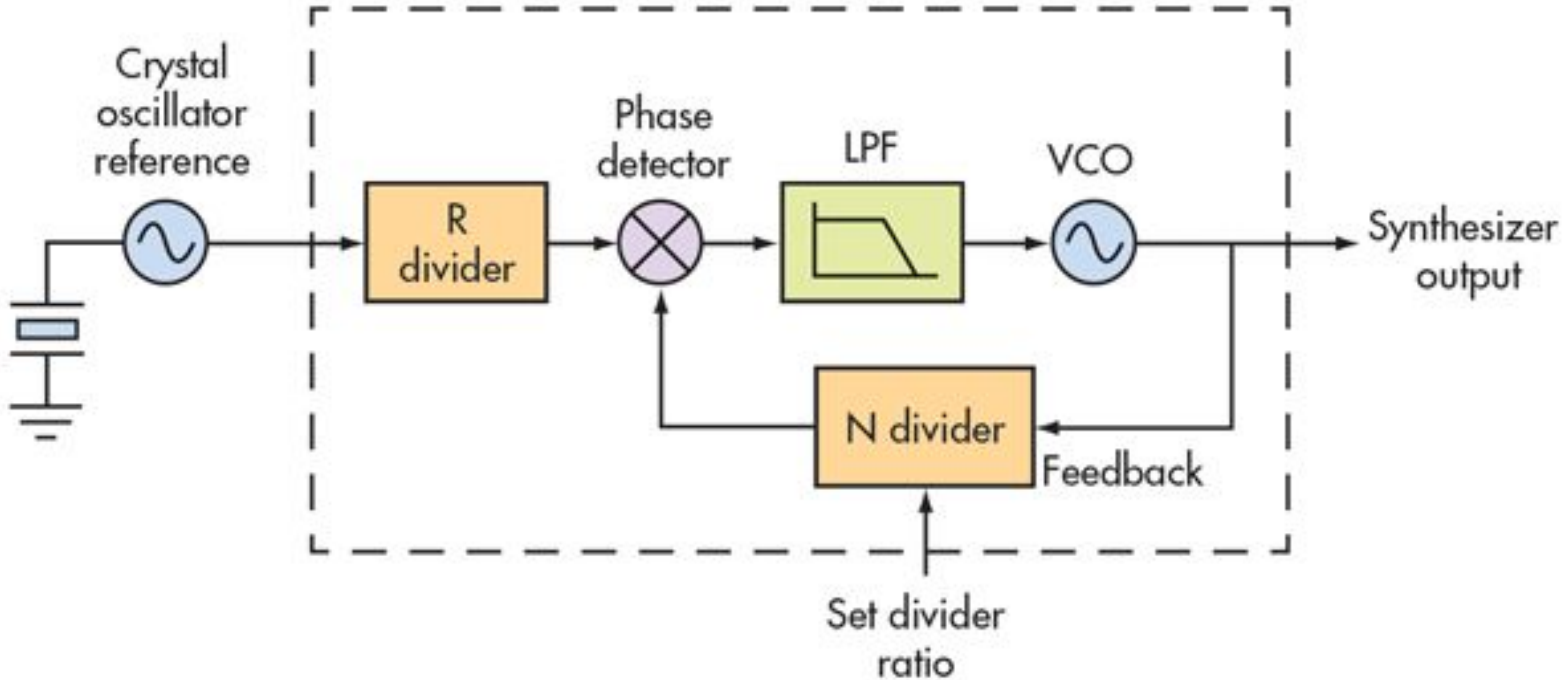
- Slower rise/fall time that minimizes EMI from the oscillator
- Saves cost by driving multiple loads and eliminate additional timing components;

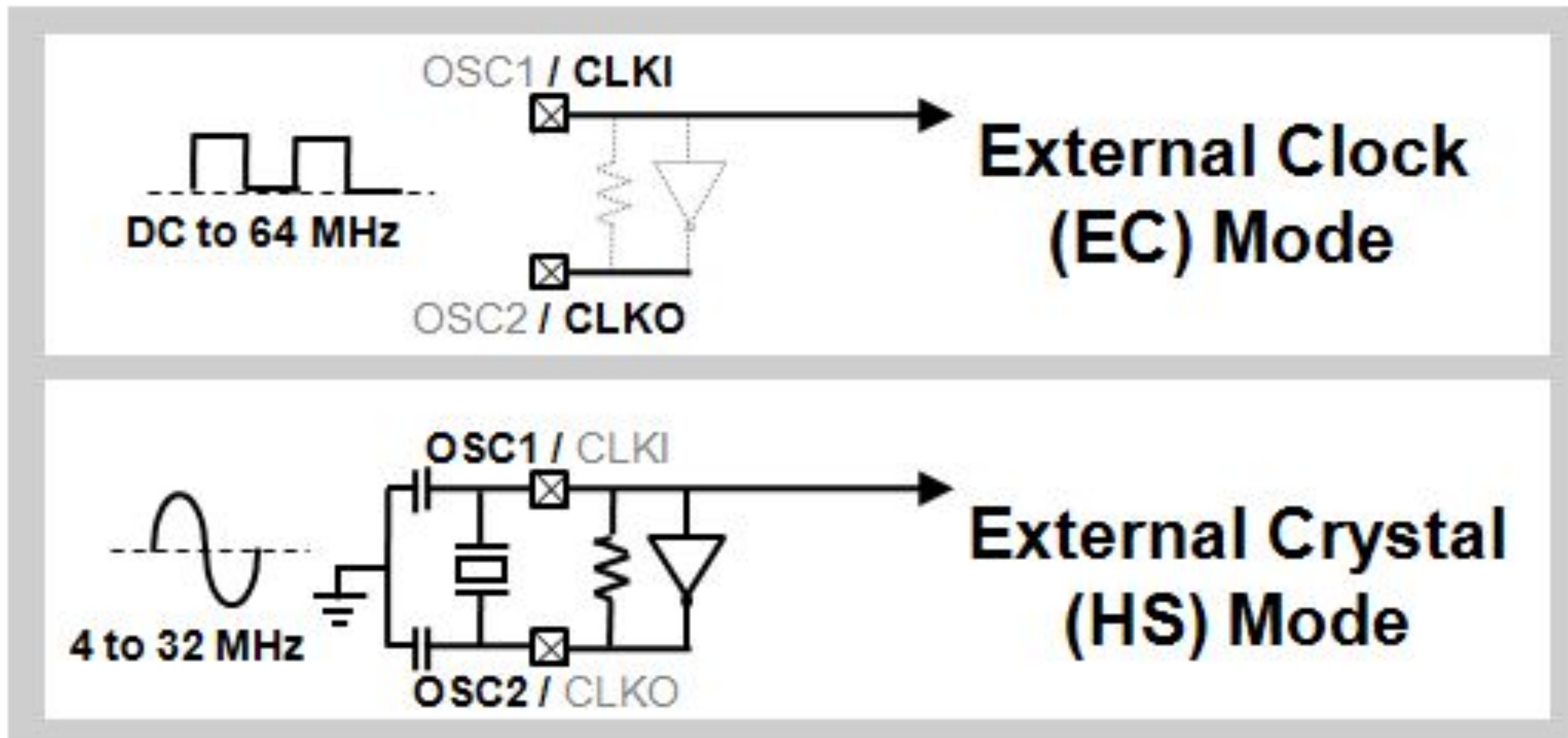
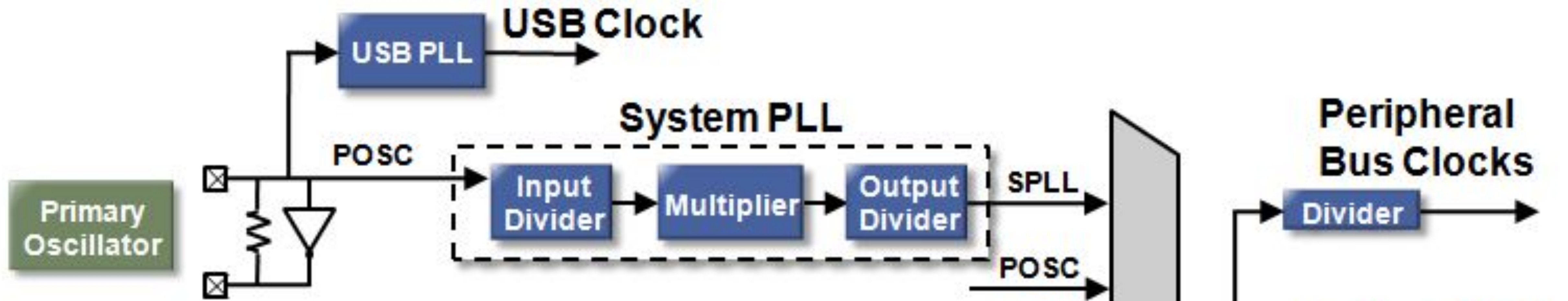
## Ultra-fast lead time (4 to 6 weeks)

- Reduce inventory overhead
- Mitigate shortage risks

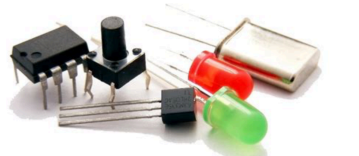


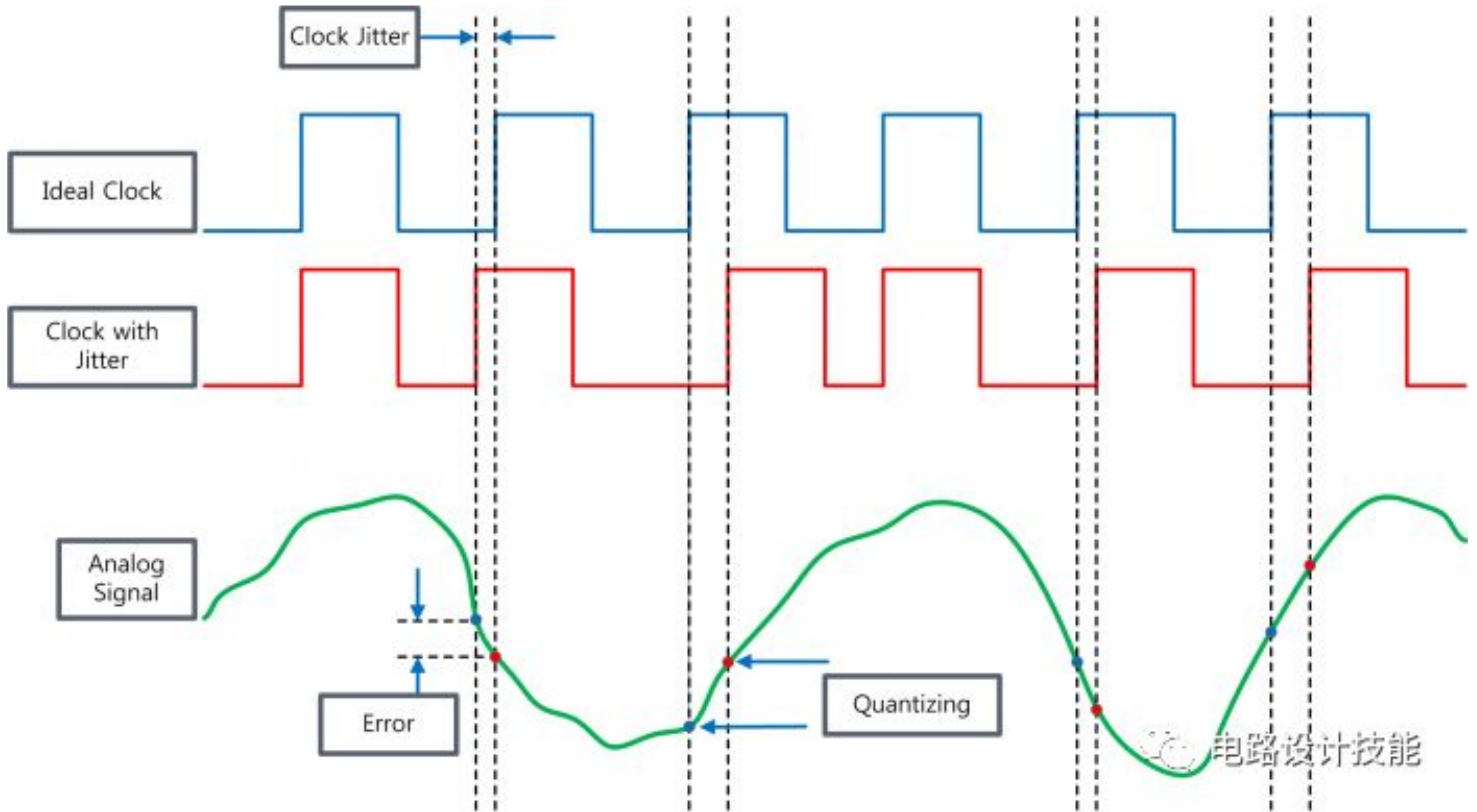
# PLL synthesizer IC



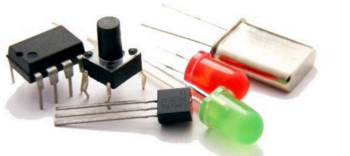


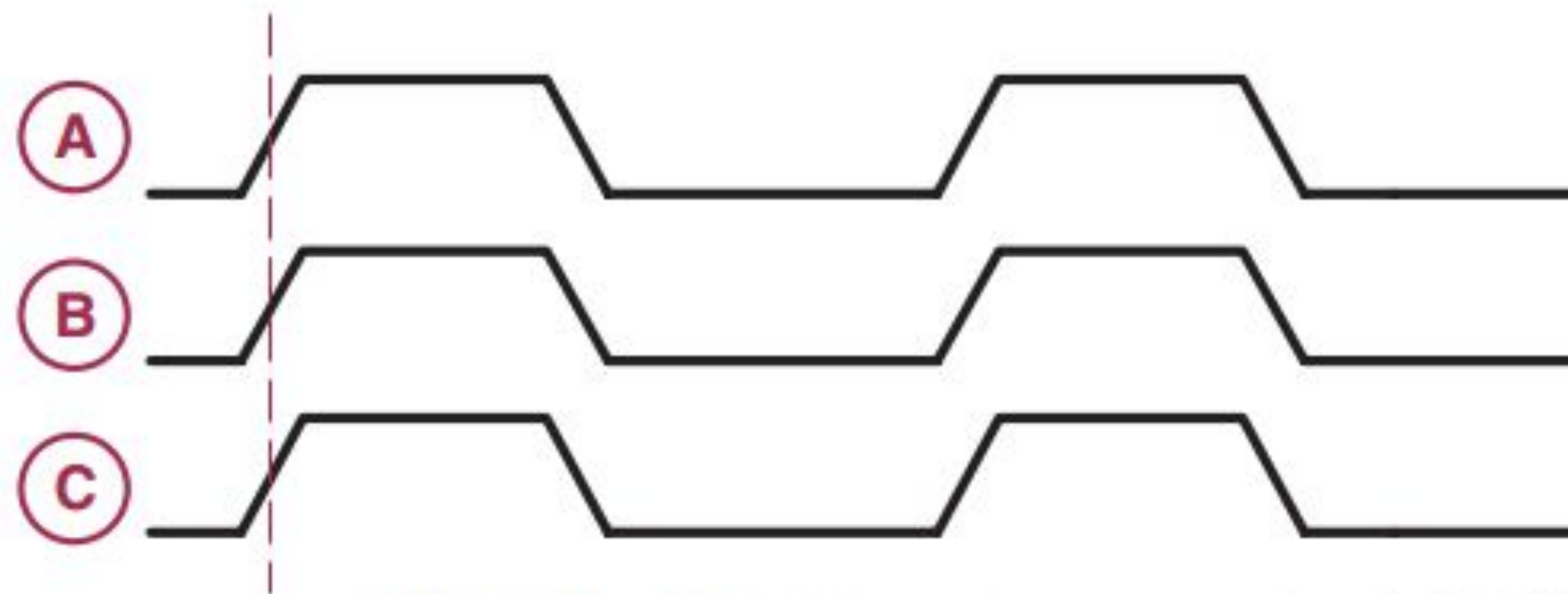
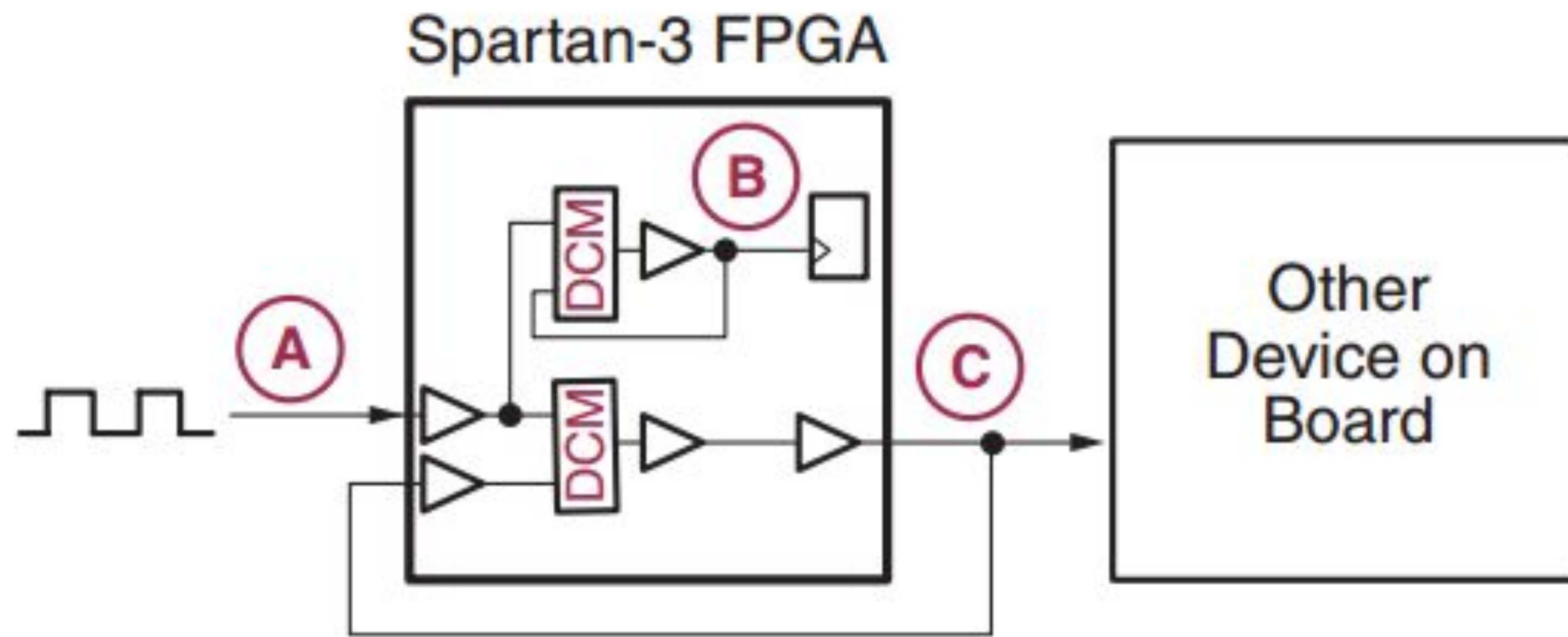
电路设计技能





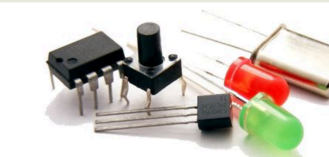
电路设计技能

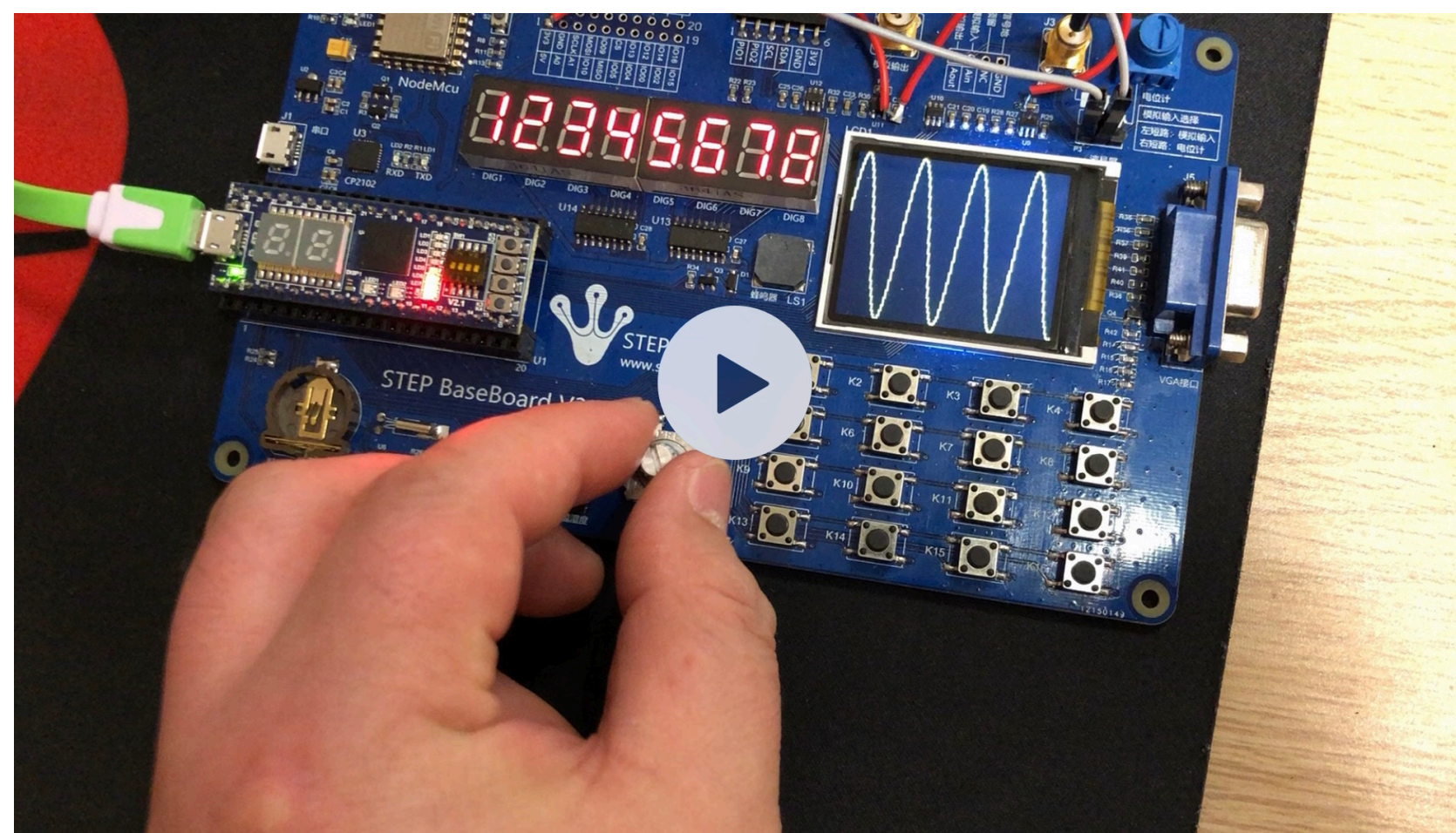
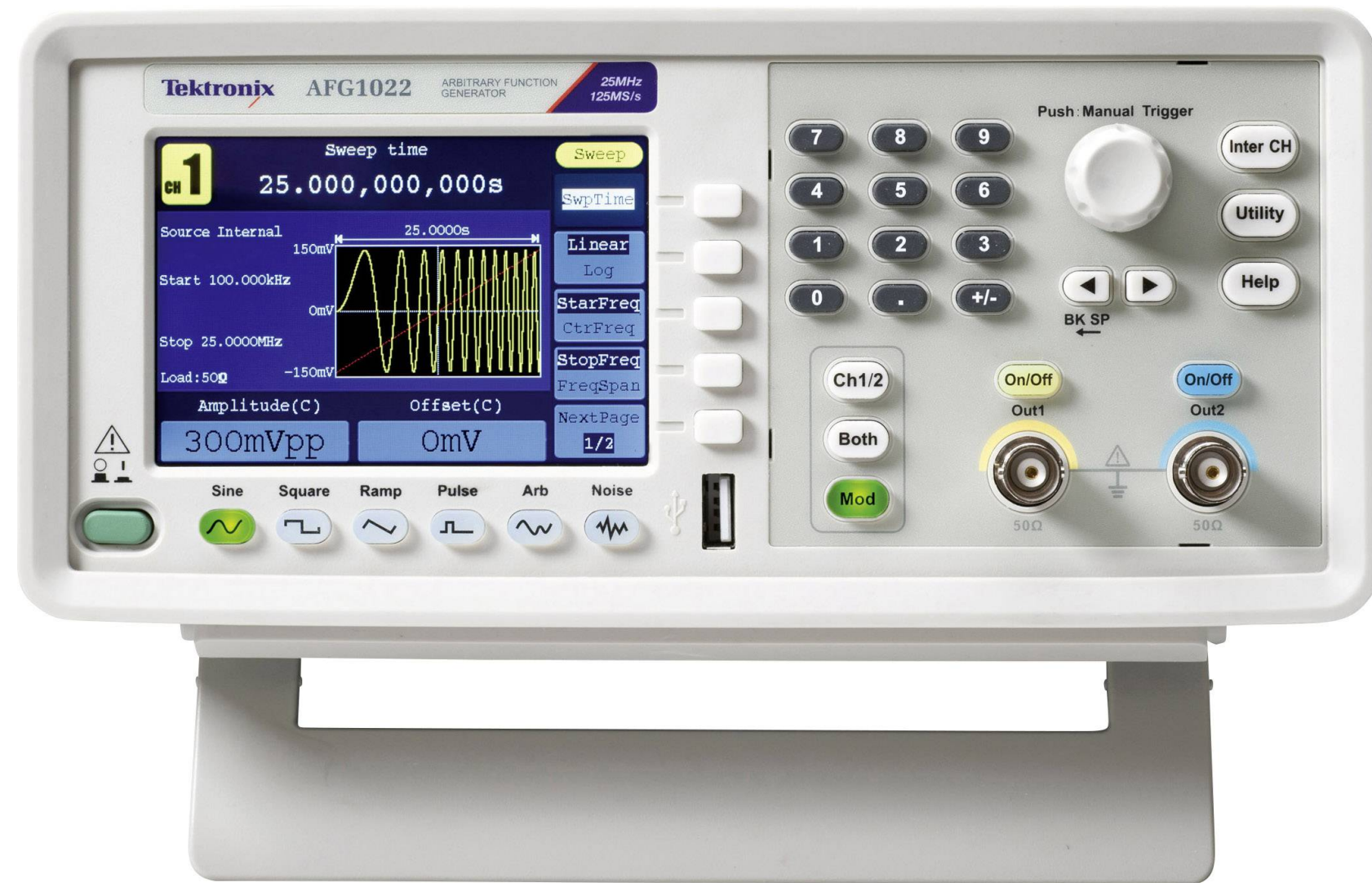




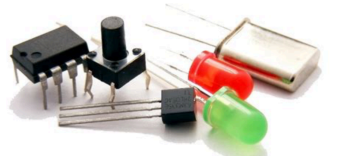
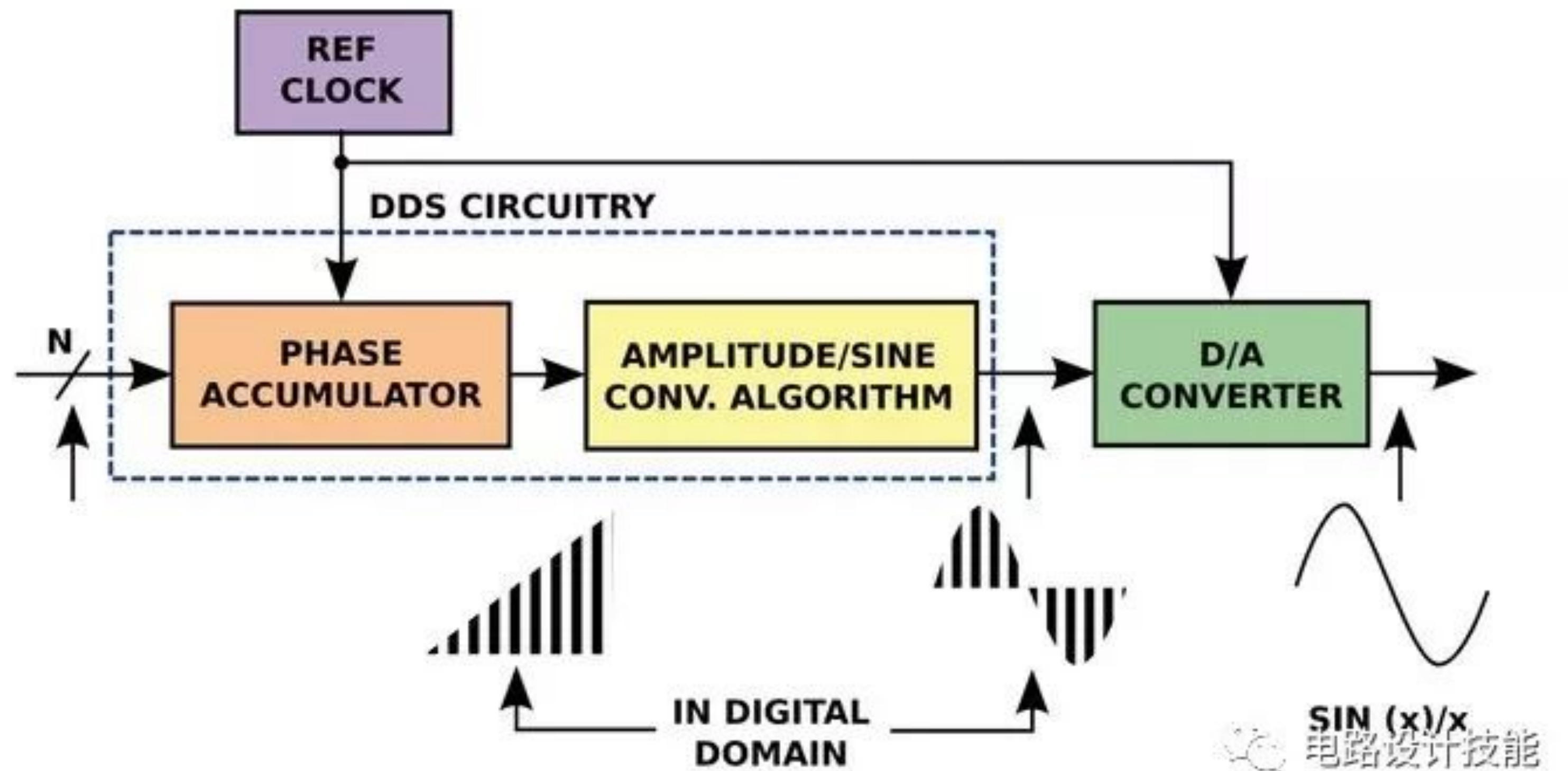
Ideal Clock Alignment

🔗 电路设计技能

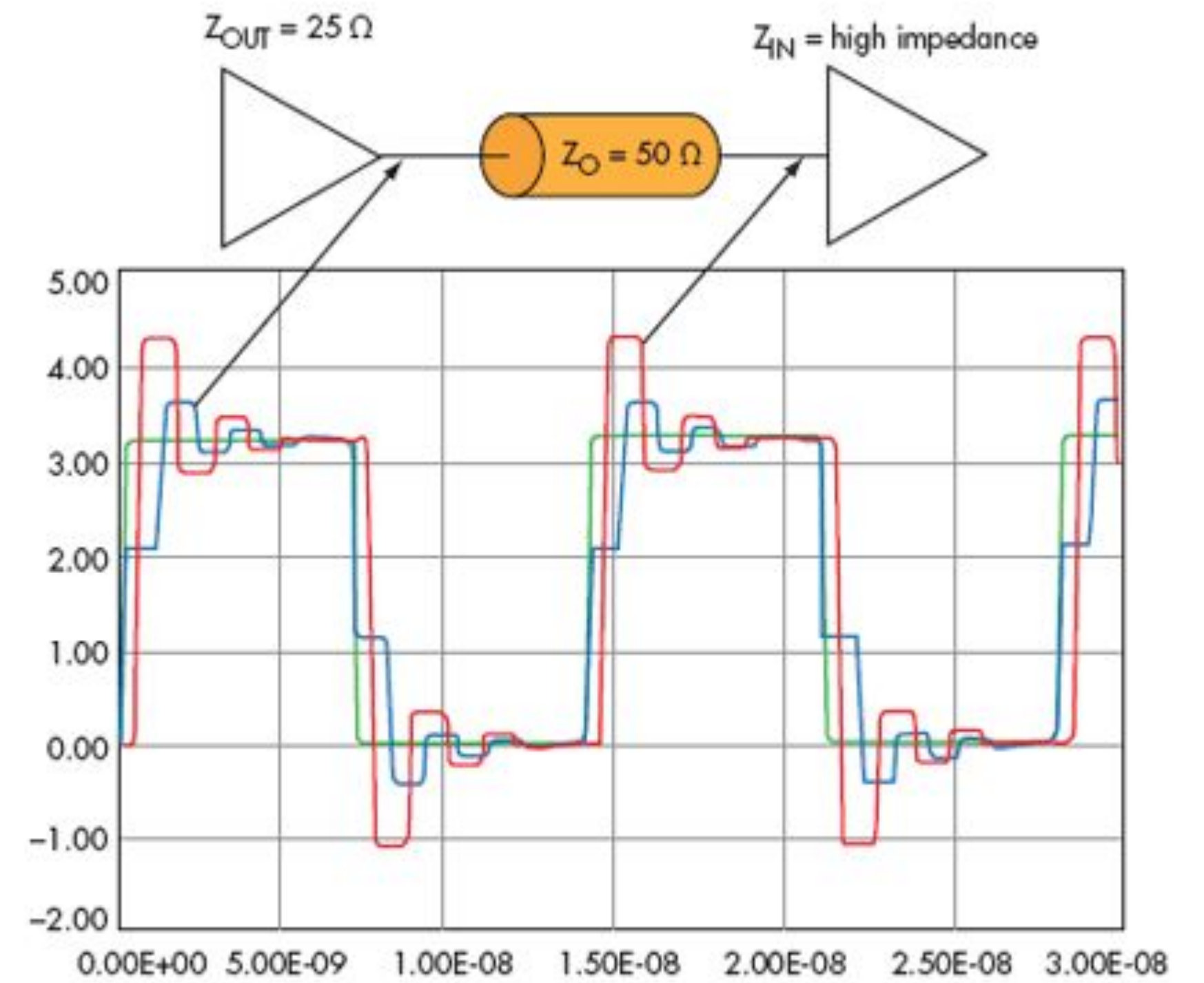
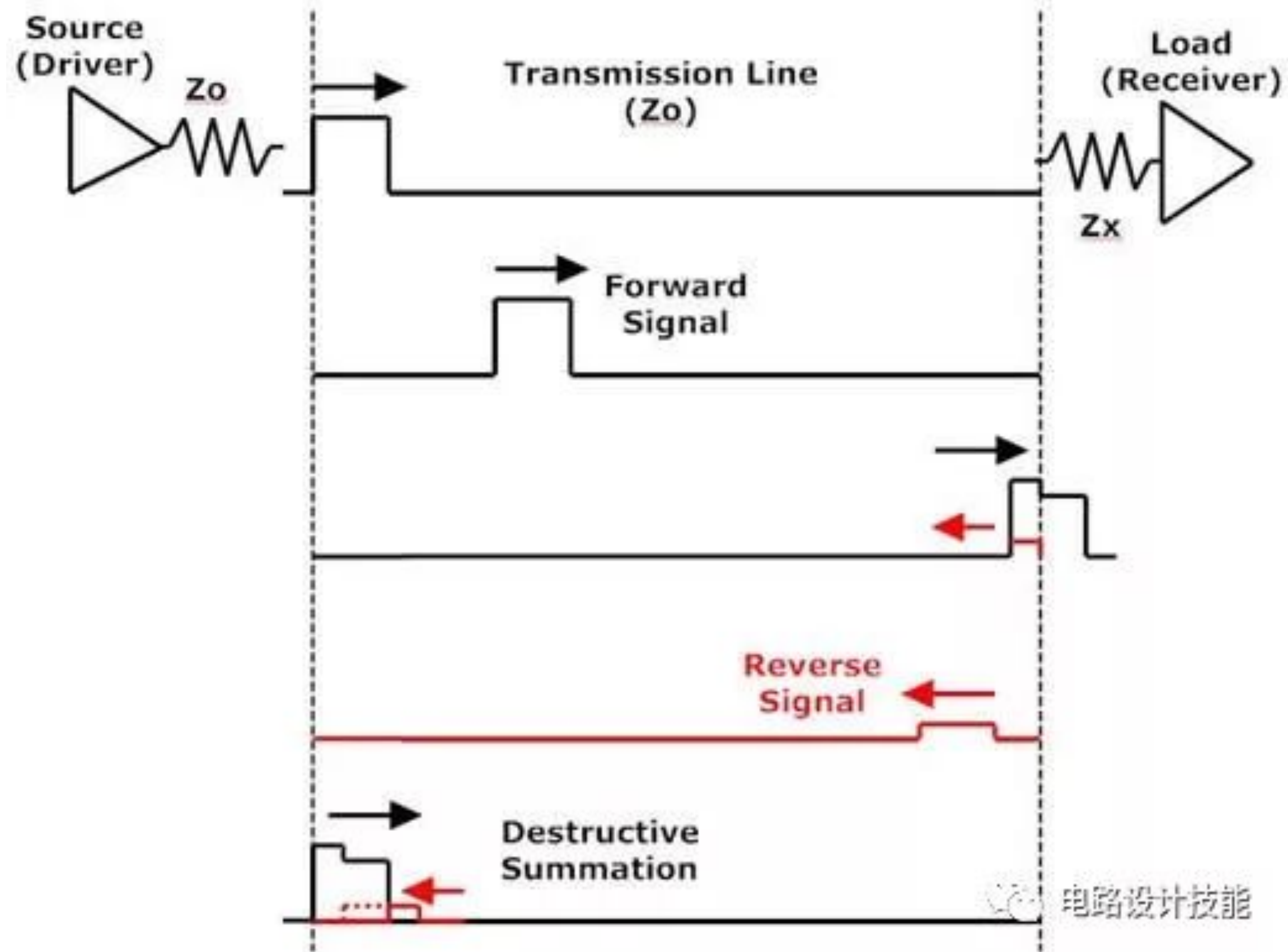




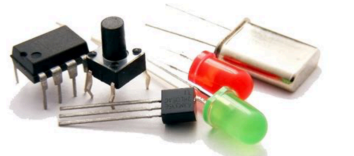
# Direct Digital Synthesis

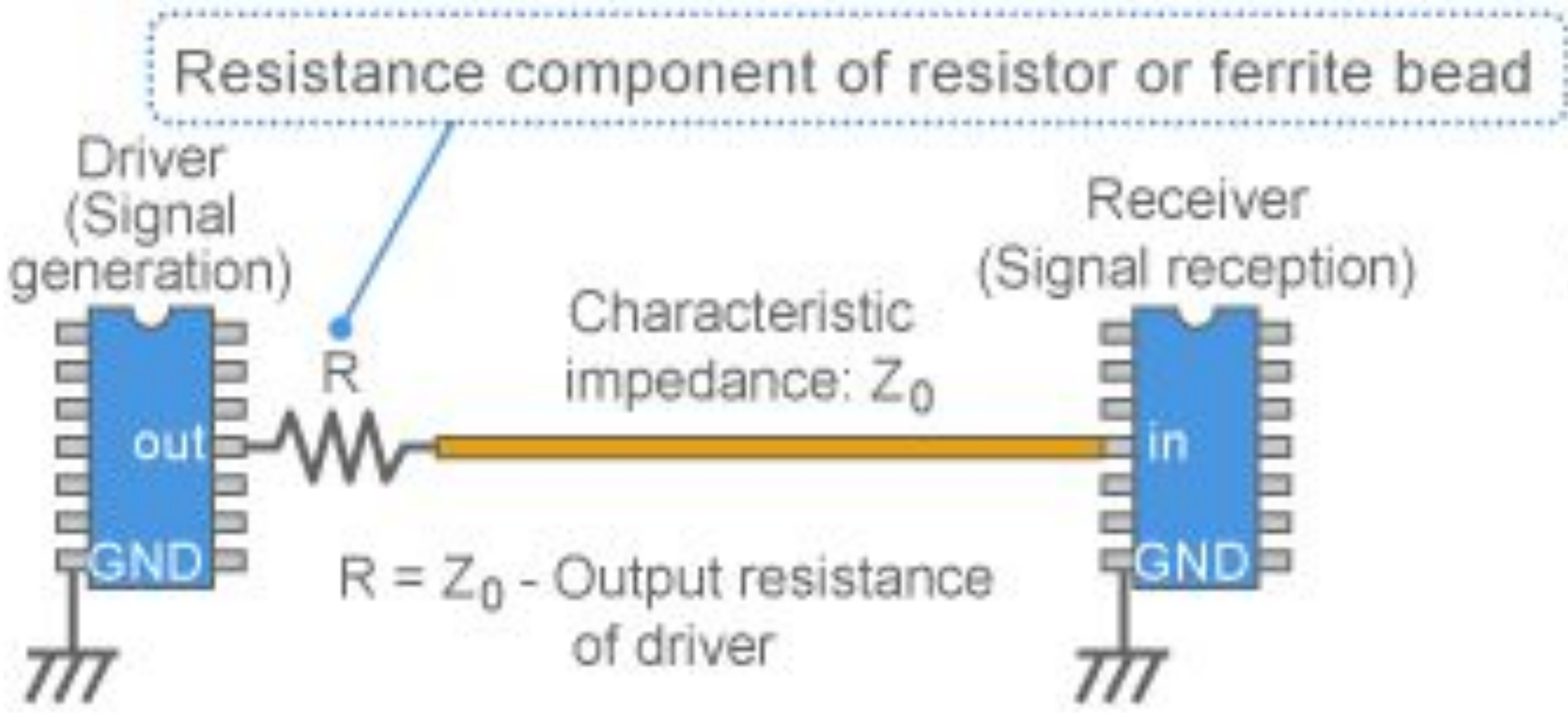




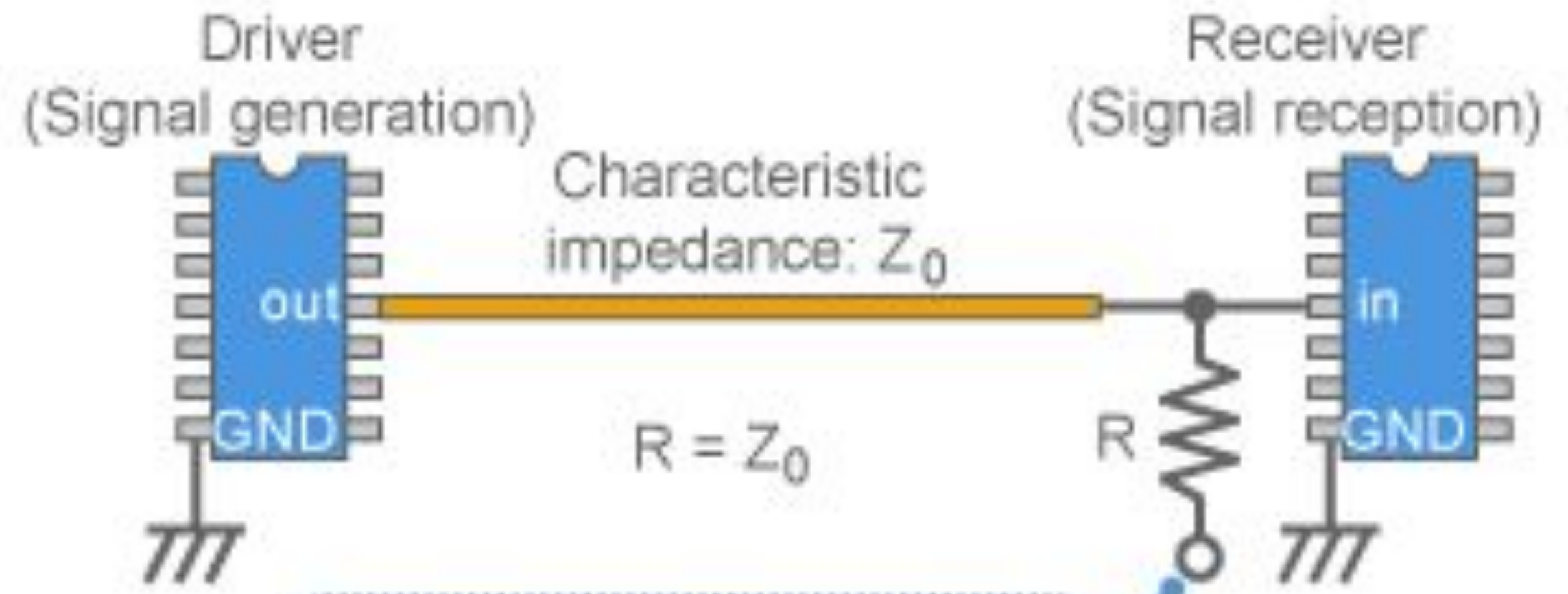


1. In this simulation, reflection is due to an unterminated transmission line. The green signal represents the ideal signal, and the blue and red signals are the driver's side and receiver's input, respectively.



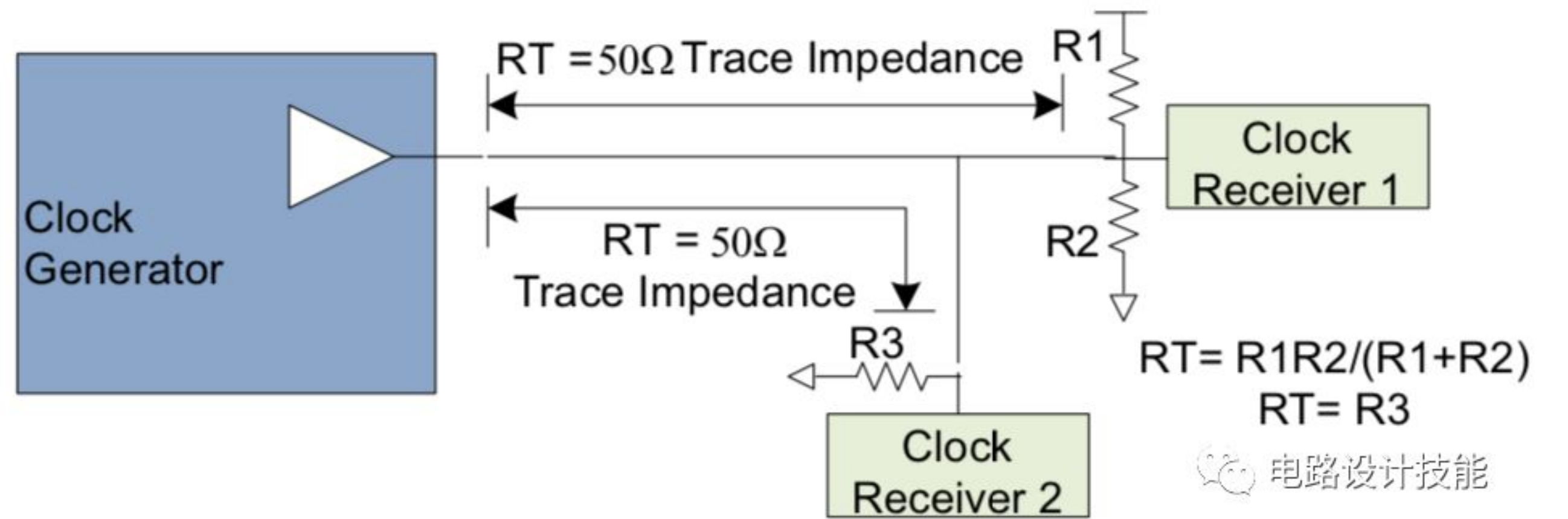
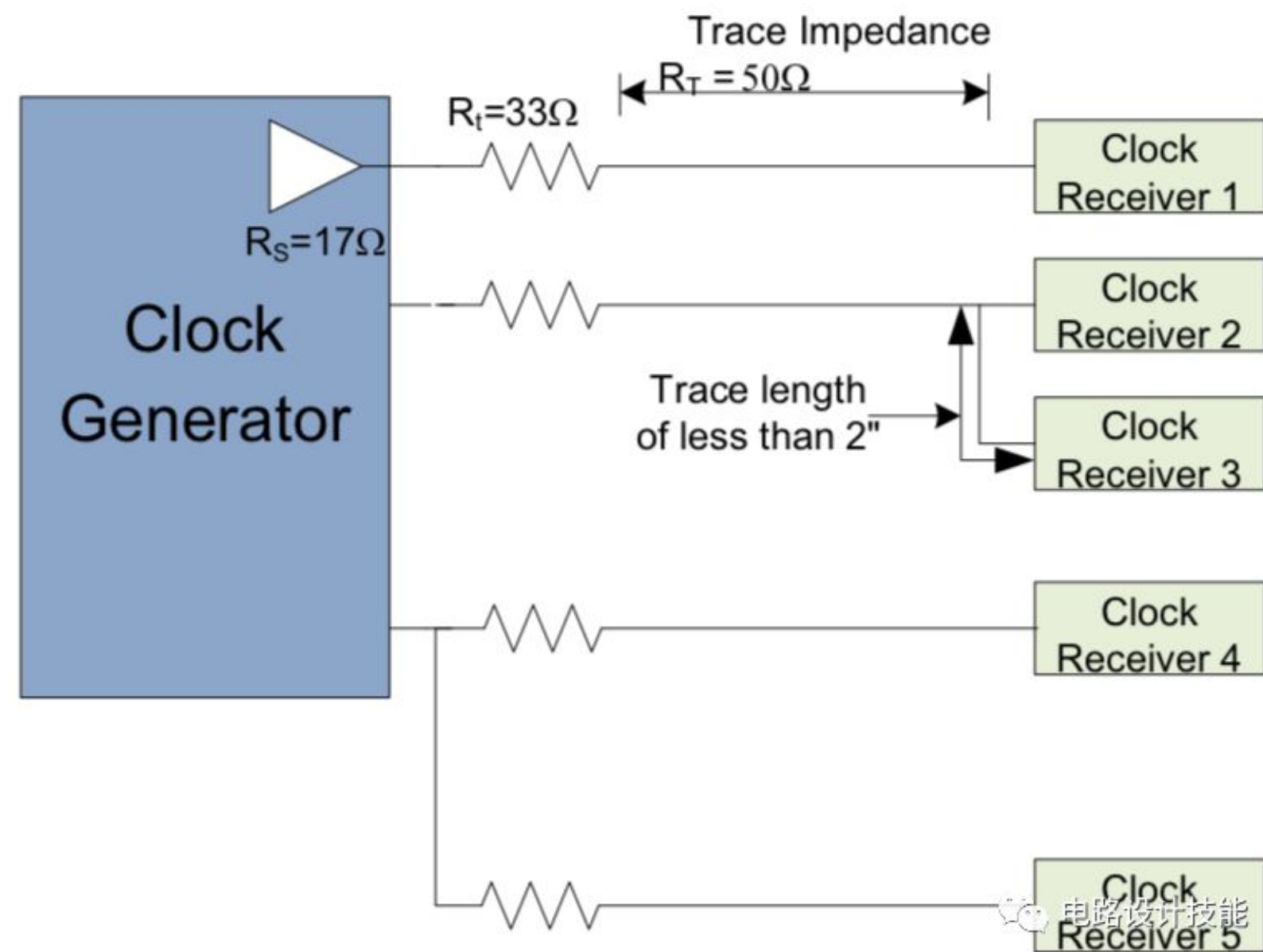


(a) When impedance-matched on the driver side



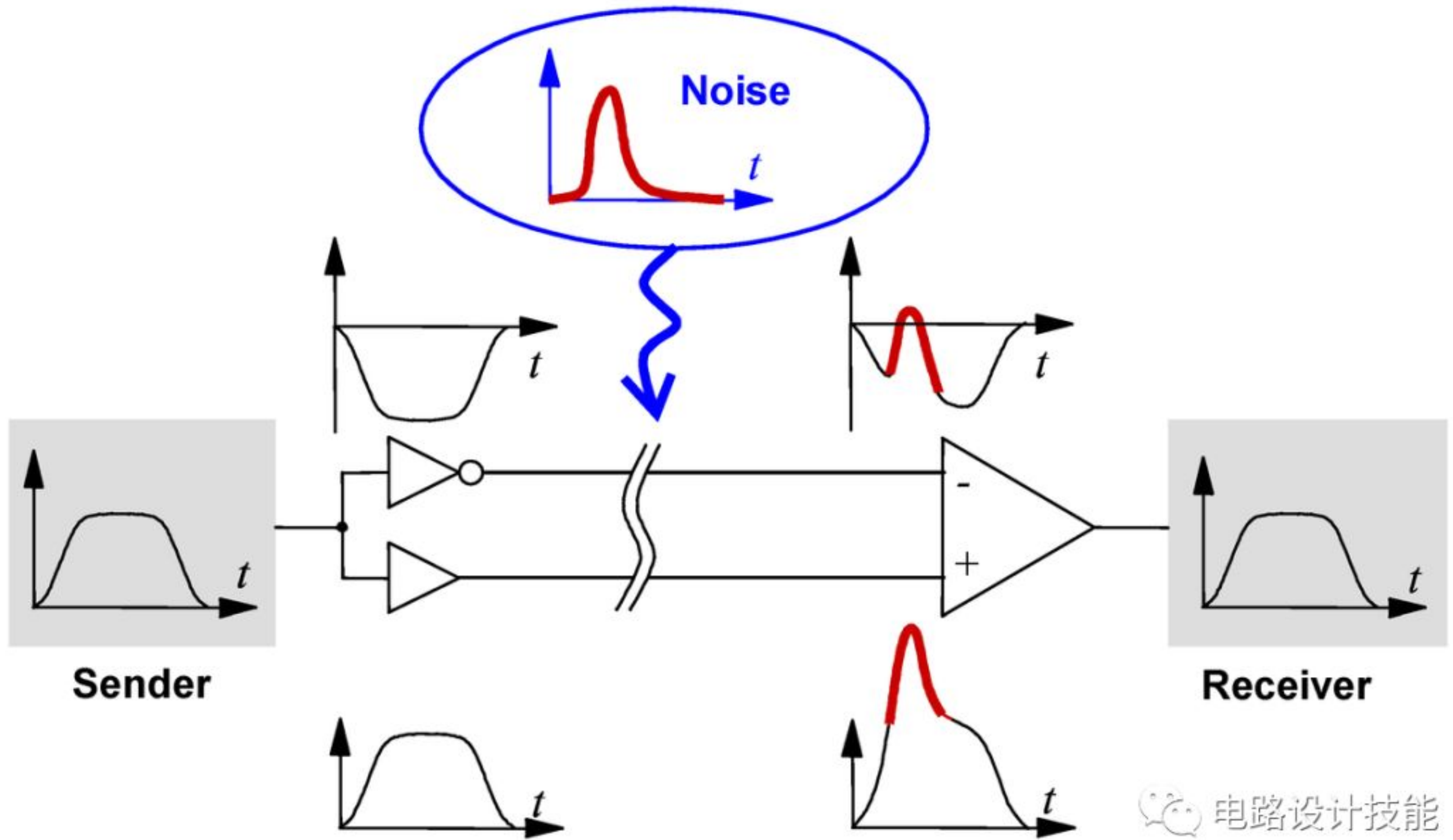
(b) When the impedance is matched on the driver side



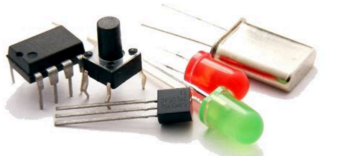


电路设计技能





电路设计技能







# LTC2232/LTC2233

10-Bit, 105MSPS/  
80MSPS ADCs

## FEATURES

- Sample Rate: 105MSPS/80MSPS
- 61dB SNR up to 140MHz Input
- 75dB SFDR up to 200MHz Input
- 775MHz Full Power Bandwidth S/H
- Single 3.3V Supply
- Low Power Dissipation: 475mW/366mW
- Selectable Input Ranges:  $\pm 0.5V$  or  $\pm 1V$
- No Missing Codes
- Optional Clock Duty Cycle Stabilizer
- Shutdown and Nap Modes
- Data Ready Output Clock
- Pin Compatible Family
  - 135MSPS: LTC2224 (12-Bit), LTC2234 (10-Bit)
  - 105MSPS: LTC2222 (12-Bit), LTC2232 (10-Bit)
  - 80MSPS: LTC2223 (12-Bit), LTC2233 (10-Bit)
- 48-Pin 7mm x 7mm QFN Package

## APPLICATIONS

- Wireless and Wired Broadband Communication
- Cable Head-End Systems
- Power Amplifier Linearization
- Communications Test Equipment

## DESCRIPTION

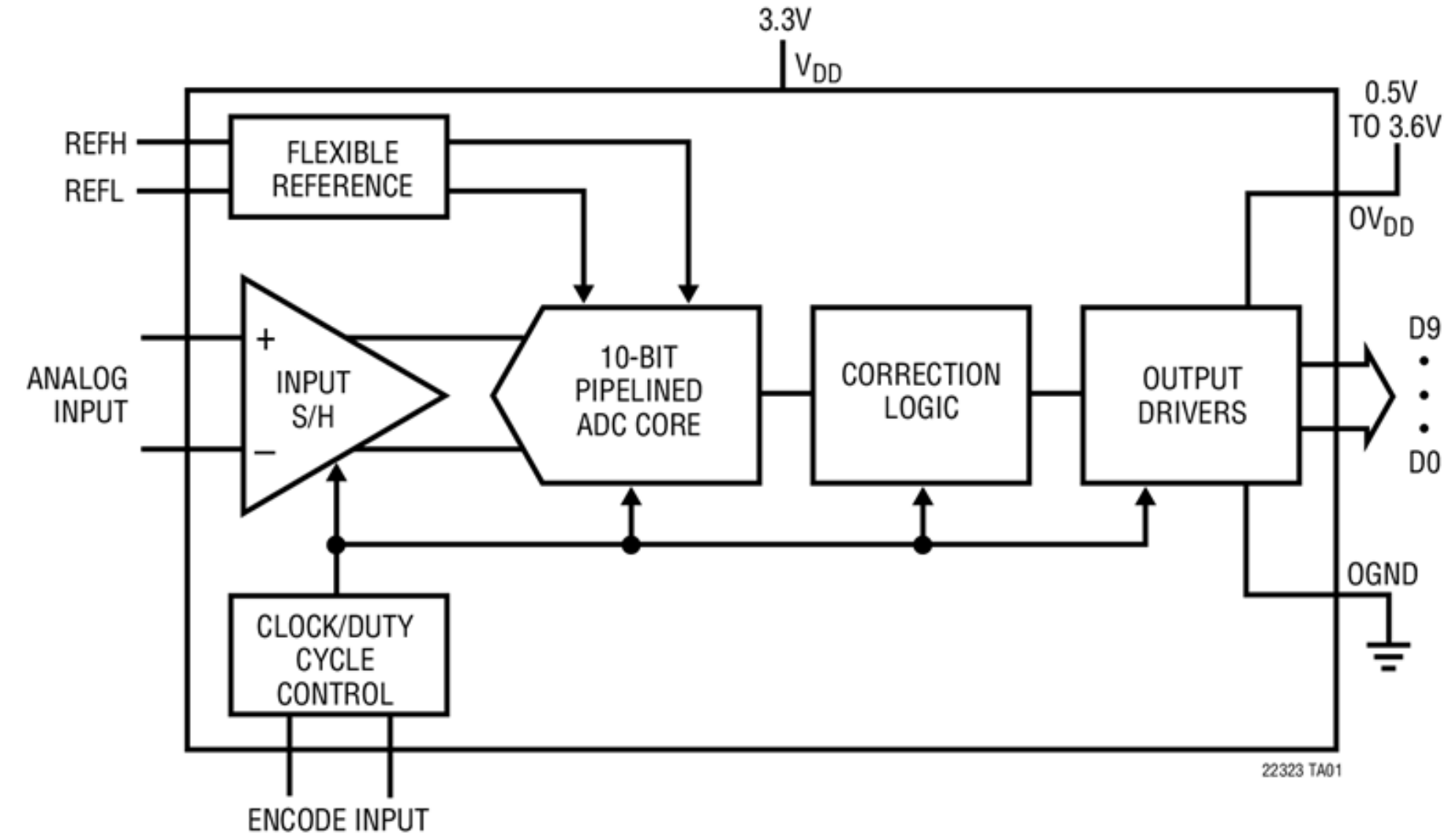
The LTC<sup>®</sup>2232 and LTC2233 are 105MSPS/80MSPS, sampling 10-bit A/D converters designed for digitizing high frequency, wide dynamic range signals. The LTC2232/LTC2233 are perfect for demanding communications applications with AC performance that includes 61dB SNR and 75dB spurious free dynamic range for signals up to 200MHz. Ultralow jitter of 0.15ps<sub>RMS</sub> allows undersampling of IF frequencies with excellent noise performance.

DC specs include  $\pm 0.15LSB$  INL (typ),  $\pm 0.1LSB$  DNL (typ) and  $\pm 0.8LSB$  INL,  $\pm 0.6LSB$  DNL over temperature. The transition noise is a low 0.12LSB<sub>RMS</sub>.

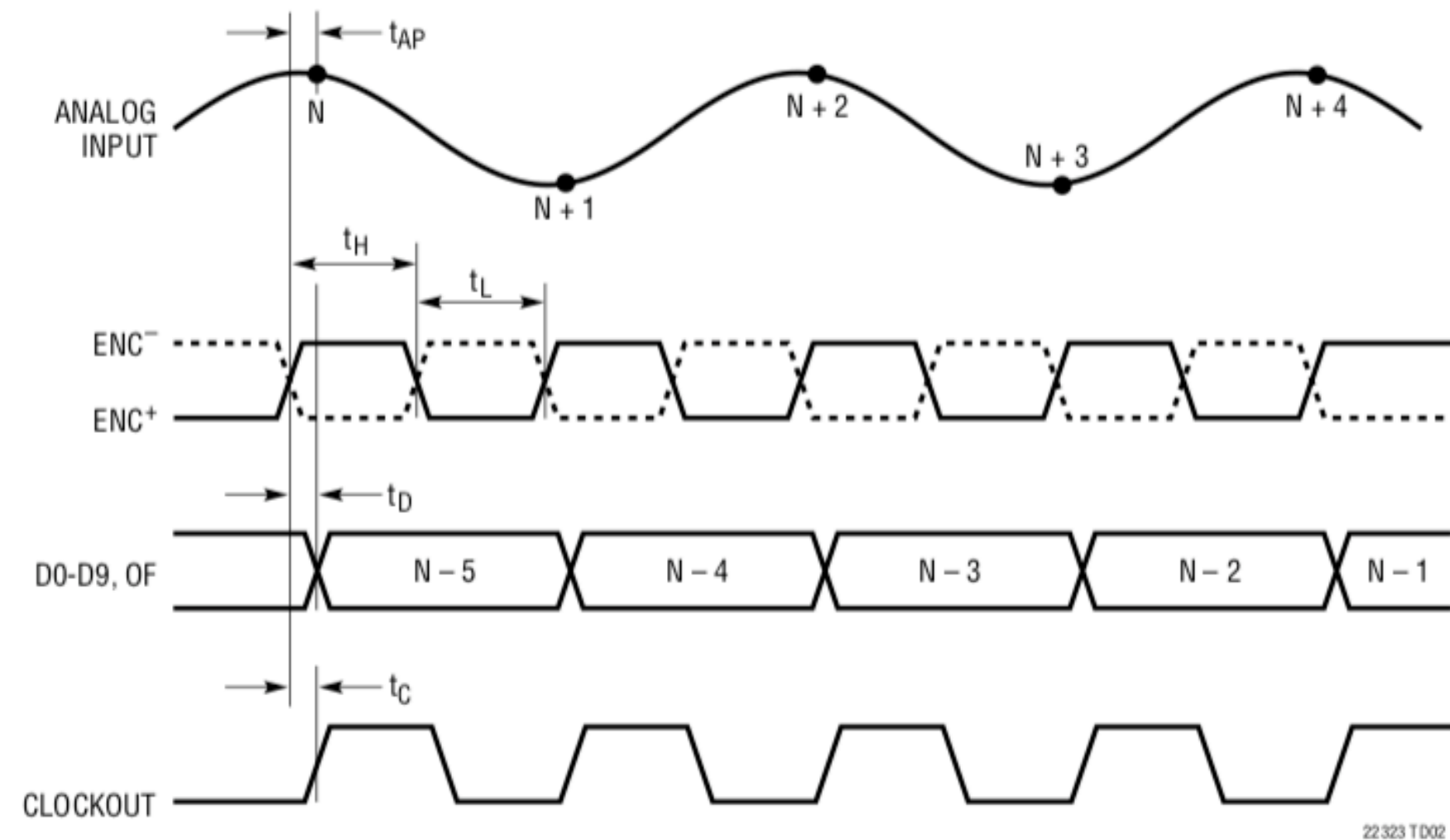
A separate output power supply allows the outputs to drive 0.5V to 3.6V logic.

The ENC<sup>+</sup> and ENC<sup>-</sup> inputs may be driven differentially or single ended with a sine wave, PECL, LVDS, TTL, or CMOS inputs. An optional clock duty cycle stabilizer allows high performance at full speed for a wide range of clock duty cycles.

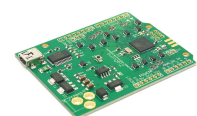
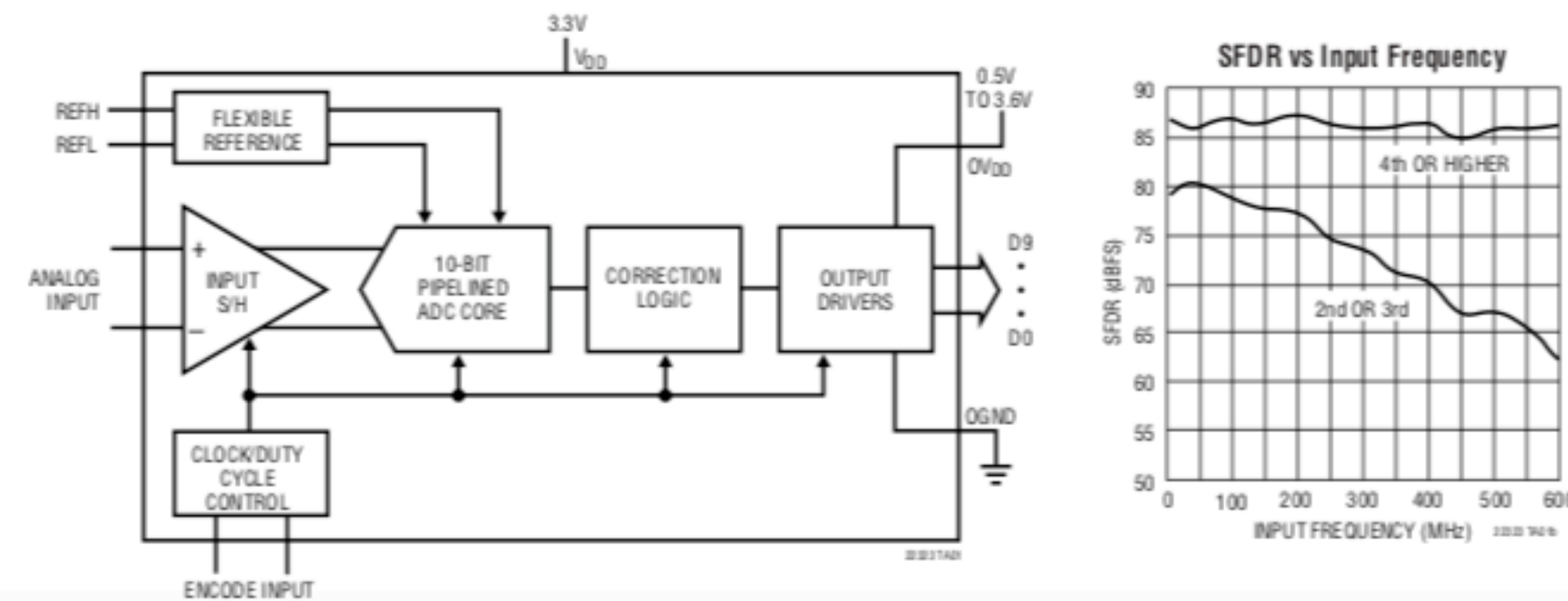
LTC, LTC and LT are registered trademarks of Linear Technology Corporation. All other trademarks are the property of their respective owners.



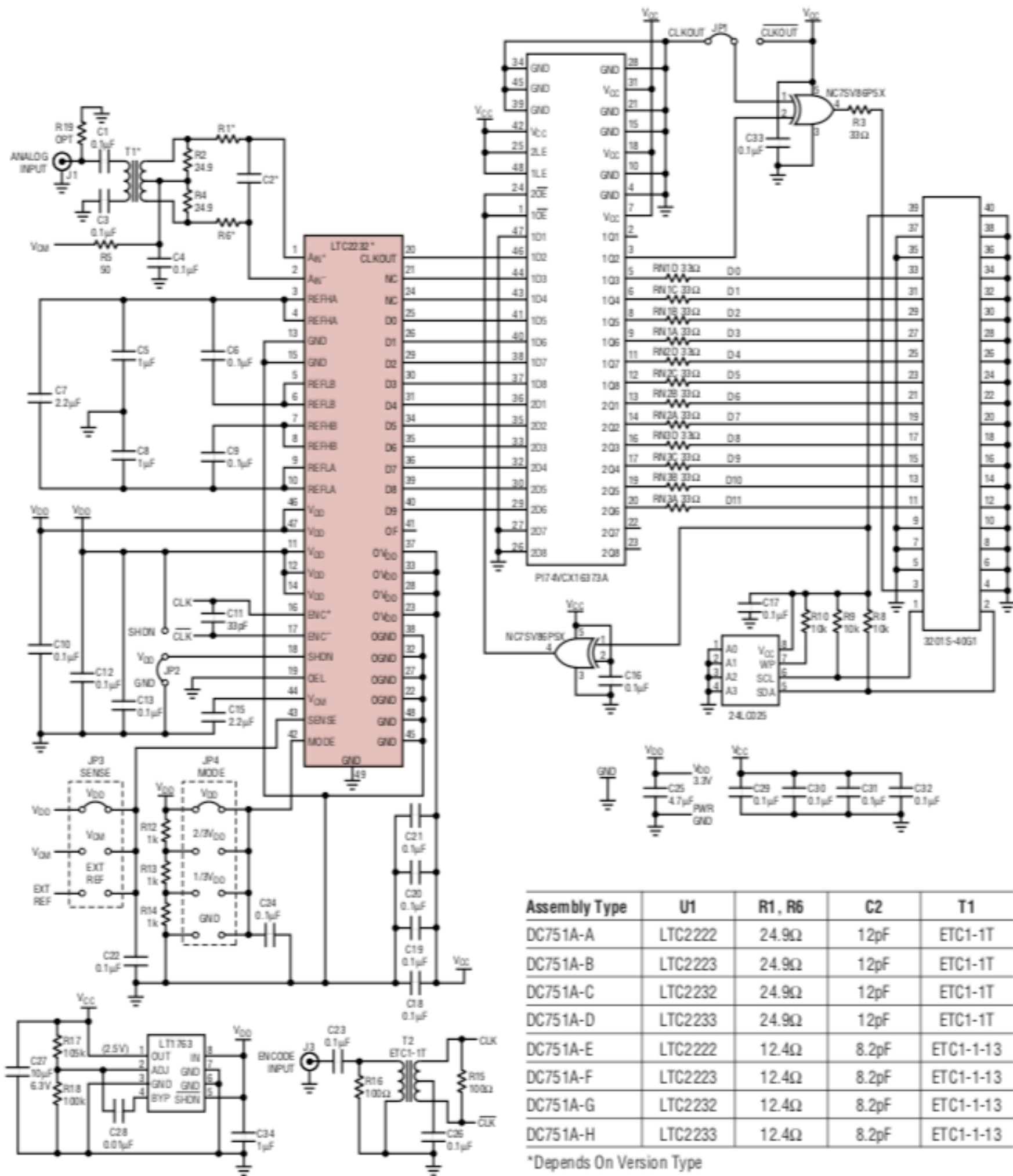
## Timing Diagram



## TYPICAL APPLICATION

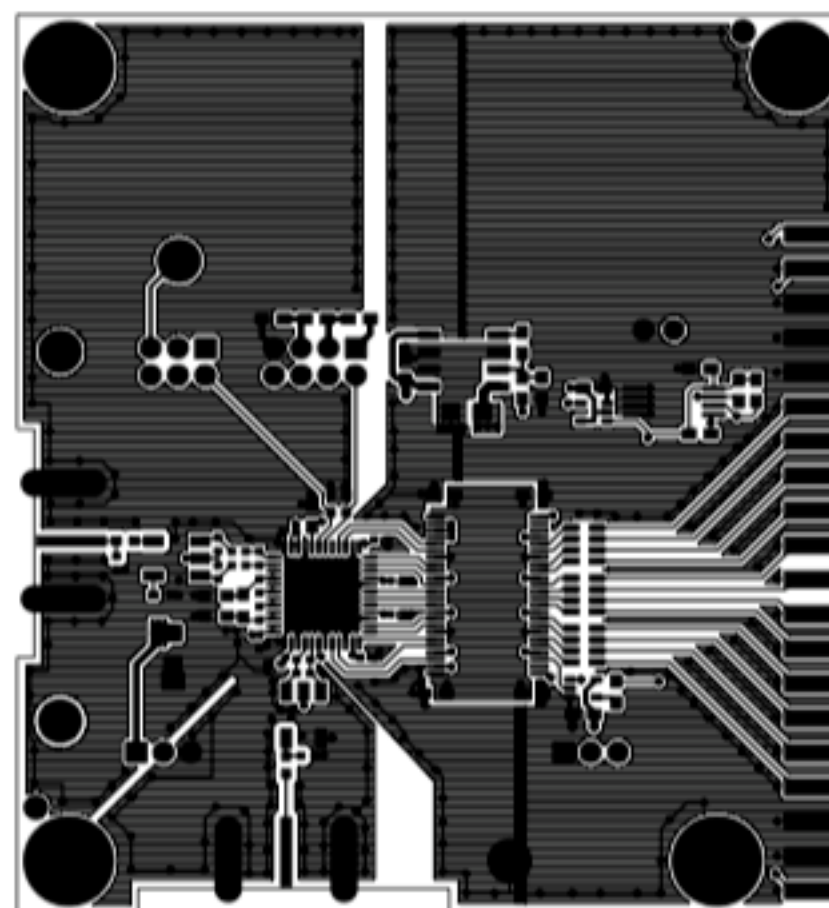


Evaluation Circuit Schematic of the LTC2232

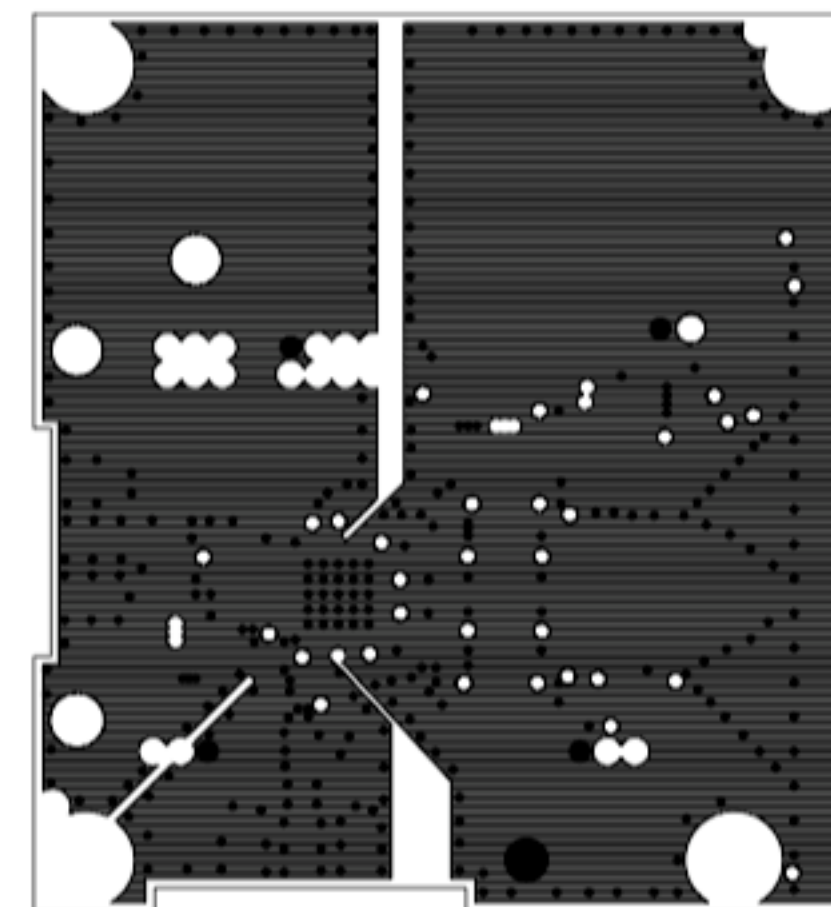


22323a

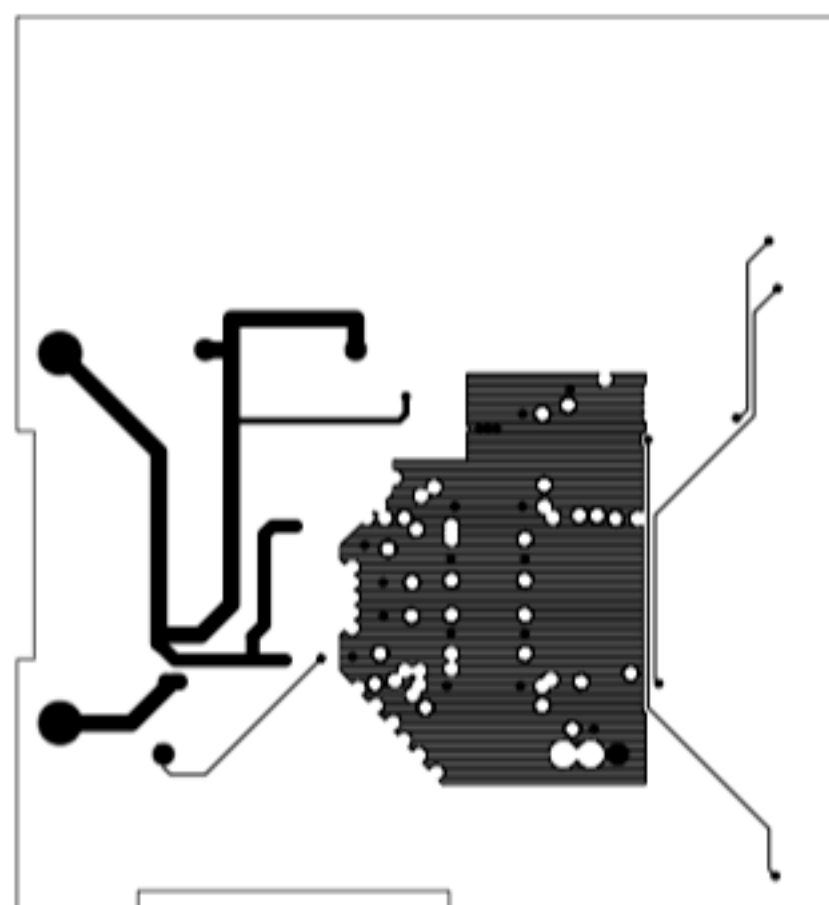
Layer 1 Component Side



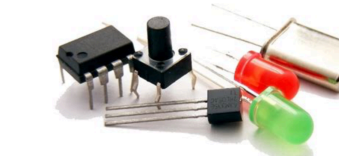
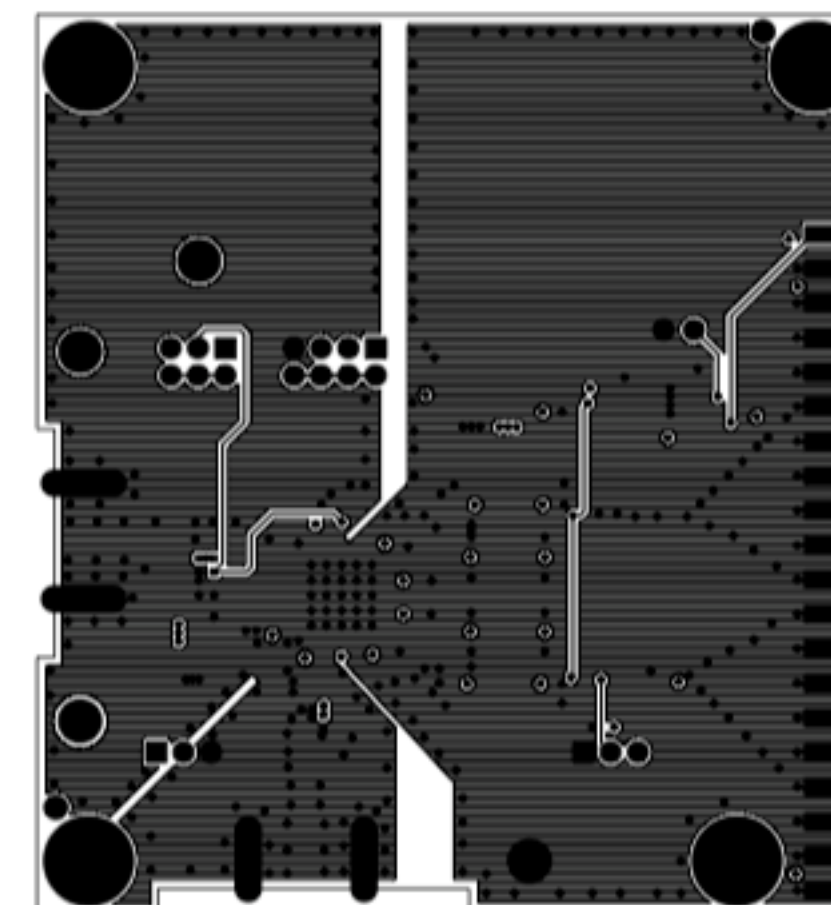
Layer 2 GND Plane



Layer 3 Power Plane



Layer 4 Bottom Side



# 关于贸泽电子 - [www.mouser.cn](http://www.mouser.cn)

The screenshot shows the Mouser Electronics website interface. At the top, a blue banner features the slogan "在MOUSER 采购很EASY!" and three key benefits: "数百万产品 一站式购齐", "接受微信支付 付款更简单", and "上海客服 本土支持". Below this is a navigation bar with the Mouser logo, "联系Mouser (上海) 400-821-6111", and a search bar. The main content area includes a "产品类别" sidebar with categories like LED照明, 工业自动化, and 半导体. A central promotional banner advertises "额满免运费\*" (Free shipping when order reaches 175 RMB) and includes a QR code for WeChat. At the bottom, there is a "最新产品" section with logos for Texas Instruments, Infineon, Intel, and Molex.

- 与非网/摩尔吧多年合作伙伴
- 全球领先的电子元器件授权分销商
- 700家原厂/500万现货库存
- 小批量采购, 170元免邮费
- 1-2周交货

