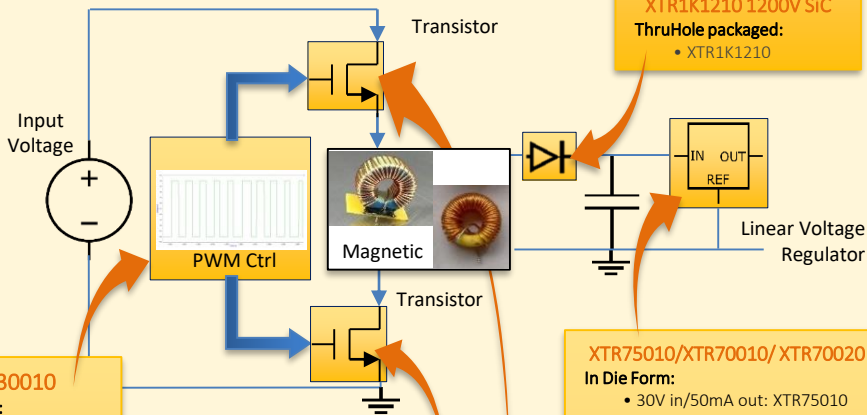


X-REL Products for SMPS: Buck, Boost, Flyback & Push-Pull topologies

All X-REL Products are available in
Die Form (set of 50pcs)
or Packaged in Thru-Hole or SMD



XTR30010

In Die Form:

- XTR30010

ThruHole/SMD packaged:

- XTR30011
- XTR30014
- XTR30015
- XTR30016
- XTR30018

XTR20410/XTR20810 Power NMOSFET

In Die Form & ThruHole/SMD packaged:

- 40V: XTR20411, XTR20412
- 80V: XTR20811, XTR20812

XTR2N300/XTR2N0500 PMOS

In Die Form & ThruHole/SMD packaged :

- 30V: XTR2N0300
- 50V: XTR2N0500

XTR2N400/XTR2N0800 NMOS

In Die Form & ThruHole/SMD packaged :

- 40V: XTR2N0400
- 80V: XTR2N0800

XTR1N0400/XTR1N0800

In Die Form:

- 40V: XTR1N04XX
- 80V: XTR1N08XX

ThruHole/SMD packaged:

- 40V: XTR1N04XX
- 80V: XTR1N08XX

XTR1K1210 1200V SiC

ThruHole packaged:

- XTR1K1210

XTR75010/XTR70010/ XTR70020

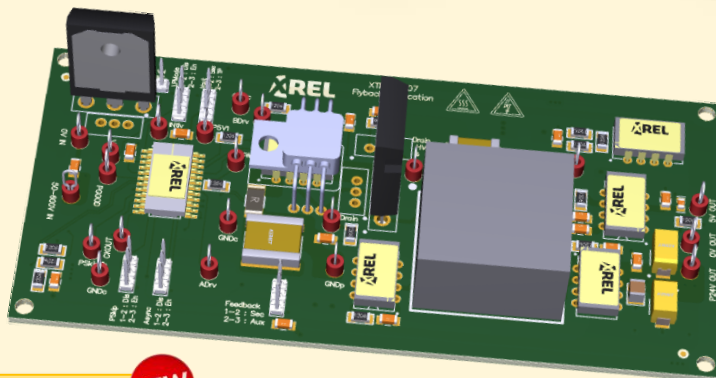
In Die Form:

- 30V in/50mA out: XTR75010
- 5V in/1.5A out: XTR70010
- 30V in/2A out: XTR70020

ThruHole/SMD packaged:

- 30V in/50mA out: XTR75011, XTR75014, XTR75015
- 5V in/1.5A out: XTR70011, XTR70015
- 30V in/2A out: XTR70021, XTR70022, XTR70025

XTDB30007 High Voltage Flyback DC/DC converter – Evaluation Board



XTDB30007

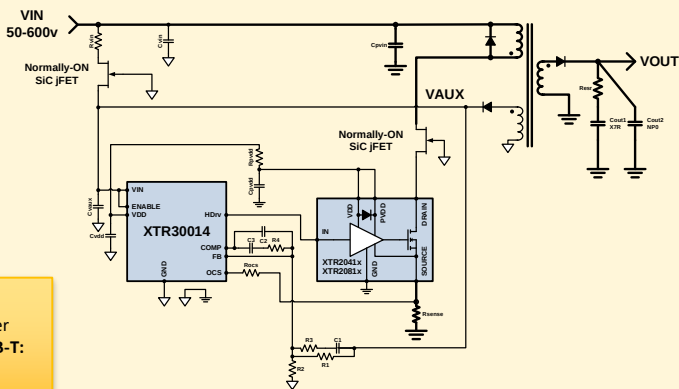
High Voltage, High Power and
High Temperature Flyback –
Evaluation Board

Characteristics :

- HV Input – Up to 600V
- 20W power level
- Single Output (20V to 28V)
- 50 – 500Khz
- 80 % efficiency
- Operation to 175°C

X-REL Products Included:

- **XTR30014-S:** PWM Controller
- **XTR20411A-D** or **XTR20412B-T:** Driver and power NMOS
- **XTR1N0850-D:** 80V Diodes
- **XTR2K1208-T:** JFET



X-REL New Product XTR30020

-60°C to 230°C for 5 years

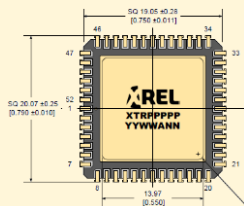
XTR30020 : New Product Purpose

- Built upon proven blocks and consists of: **XTR30010 + 2 * XTR20412**
- Simplify Board Layout by reducing number of layers
- Reduce **Synchronous Buck DC-DC** design footprint: **from 460mm² down to 110mm²**
- Single Component with **integrated PWM + Transistor: 1st in the 230°C Market**
- XTR30020 will be available in **Packaged and Die form**.

Prototypes in LICC 52 pins package
20mm by 20mm (0.8inch by 0.8 inch)

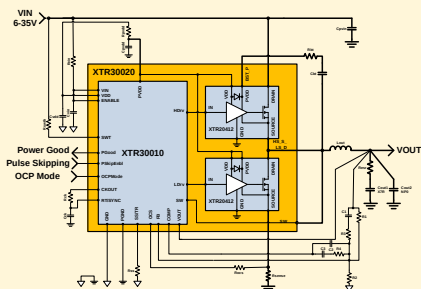


AVAILABLE
FROM STOCK

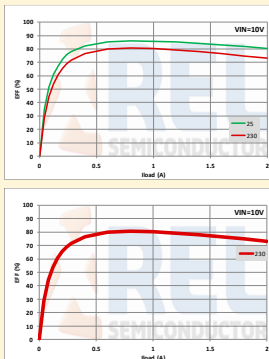


Applications

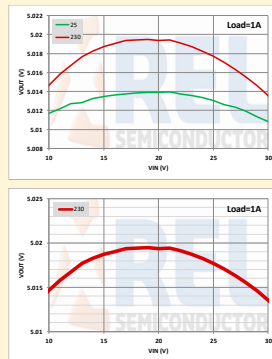
Synchronous Buck DC-DC



Efficiency vs Iload



VOUT vs VIN



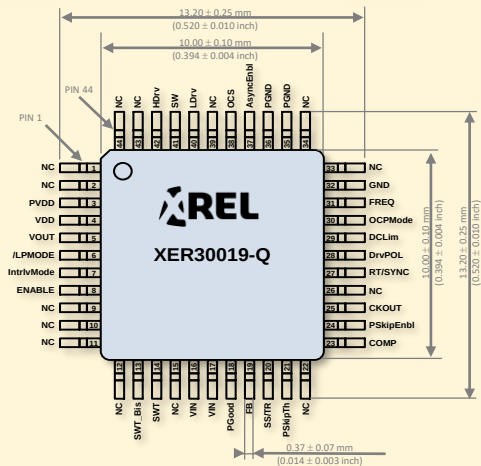
XER30019-Q: XTR30010 in Plastic QFP 44 pins for 175°C Applications

XER30019-Q : New Product Features

- Built upon **proven** 230°C XTR30010 die.
- All XTR30010 flavours in one unique Plastic Package with Gull-Wing Lead Shape: **One Unique Reference** for Buck, Boost, Flyback and Push-Pull
- **Specification:**
 - Junction Temp.: 175°C for 5 years
 - Input Voltage: 6-35V
 - Freq: 600kHz typ (800-1000kHz max)
- **Main Features:**
 - Selectable **Synchronous/Asynchronous Mode**
 - Programmable **Pulse Skipping Mode**
 - Programmable **Interleave Mode**
 - Integrated **Over Current/Overload Protection**
 - **Power Good Flag**
- **SMD Package:** STD JEDEC MS-022-AB Plastic QFP 44
 - **Body:** 10mm by 10mm
0.394" by 0.394"
 - **Lead Pitch:** 0.80mm/0.031"

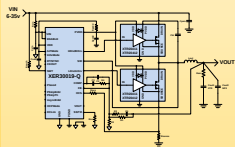
Prototypes AVAILABLE FROM STOCK

NEW

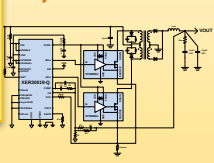


Applications

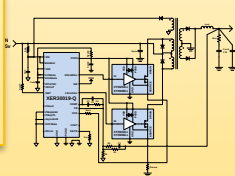
Buck DC-DC



Flyback DC-DC



Push-Pull DC-DC



Boost DC-DC

