



Integrated MOSFET drivers and Bootstrap Diode

Thermal Shut Down

Programmable Power Good Output with tracking capability

Monotonic Start-Up

Operating temp:  $-40^{\circ}\text{C}$  where  $T_j$  is  $< 125^{\circ}\text{C}$

Small Size: 5mm x 6mm PQFN

Lead-free, Halogen-free and RoHS Compliant

Desktop and Workstations

Fan

Graphic Boards

Netcom and Telecom

Point of Load

Pump

Servers and Storage

Servo Drives

Solar

UPS

Welding

## Features

Single 5V and 12V application

Wide Input Voltage Range from 1.0V to 21V with external Vcc

Output Voltage Range: 0.5V to 0.86\* Vin

Enhanced Line/Load Regulation with Feed-Forward

Programmable Switching Frequency up to 1.5MHz

Internal Digital Soft-Start/Soft-Stop

Enable input with Voltage Monitoring Capability

Thermally Compensated Current Limit with robust hiccup mode over current protection

Smart internal LDO to improve light load and full load efficiency

External Synchronization with Smooth Clocking

Enhanced Pre-Bias Start-Up

Precision Reference Voltage (0.5V+/-0.5%) with margining capability

Vp for Tracking Applications (source/sink capability + - 16A)

Integrated MOSFET drivers and Bootstrap Diode

Thermal Shut Down

Programmable Power Good Output with tracking capability

Monotonic Start-Up

Operating temp: -40°C where Tj is < 125°C

Small Size: 5mm x 6mm PQFN

Lead-free, Halogen-free and RoHS Compliant

## Application

Desktop and Workstations

Fan

Graphic Boards

Netcom and Telecom

Point of Load

Pump

Servers and Storage

Servo Drives

Solar

UPS

Welding

<P>:IR3895MTRPBF <T>:103F2NJ.1 <Q>:4000

QC Accept



<P> Cust P/N: IR3895MTRPBF

L/C  
103F2NJ.1  
103EO5C.1  
103F2NJ.1

D/C  
2108  
2108  
2108

QTY  
491  
1735  
1774

<P> Part No:IR3895MTRPBF



<T> Lot No: 103F2NJ.1



<V> Vendor: INFINEON

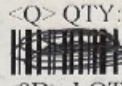


MSL RATING : 2

Infineon



Pb free



<Q> QTY: ~~4000~~ 2545

<9D> LOT D/C: 2108



Pkg Name: MFG #:103F2NJ.1A

PQFN-22L (5 X 6)

ASSEMBLED IN CARSEM-S CHINA  
TESTED IN CARSEM(S) CHINA

CAUTION STATIC SENSITIVE DEVICES

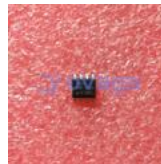


## Related Products



### [IRS2101SPBF](#)

Infineon Technologies Corporation  
SOIC-8



### [IRS2003STRPBF](#)

Infineon Technologies Corporation  
SOIC-8



### [IRS21864SPBF](#)

Infineon Technologies Corporation  
SOIC-14



### [IR3897MTRPBF](#)

Infineon Technologies Corporation  
PQFN 4 x 5



[IR3898MTRPBF](#)

Infineon Technologies Corporation  
PQFN 4 x 5



[IR21531SPBF](#)

Infineon Technologies Corporation  
SOIC-8



[AIURS2301STR](#)

Infineon Technologies Corporation  
SOIC-8



[IR1168SPBF](#)

Infineon Technologies Corporation  
SOIC-8