

2.7V~20V, 15A Fully Integrated Synchronous Boost Converter Evaluation Board

FEATURES

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V_{SS} \ UDQ 7KH FRQVWDQW RIIWLPH SHDN FKUHQW
PRGHRSHUDWLRQSURYLGHVIDVWWUDQVLHQWUHVSRQVHDQG
HDVHVORRSVWDELOLDWLRLQ7KHGHYLFHIIHDWKKHVLQFOKH
RYHUFKHUHQW SURWHFWLRQ RWSW RYHU YROWDII
SURWHFWLRQ DQG WKHUPDO VKWGRQ 7KH 6.5V
DYDLODEOH LQ D VSDFHVDYLQJ SLQ 1
PPPSDFNDII

7KLVL KHUV KGH GHVFULEHV WKH FKDUDFWHULVWLEV
RSHUDWLRQ DQG WKH KH RI WKH 0

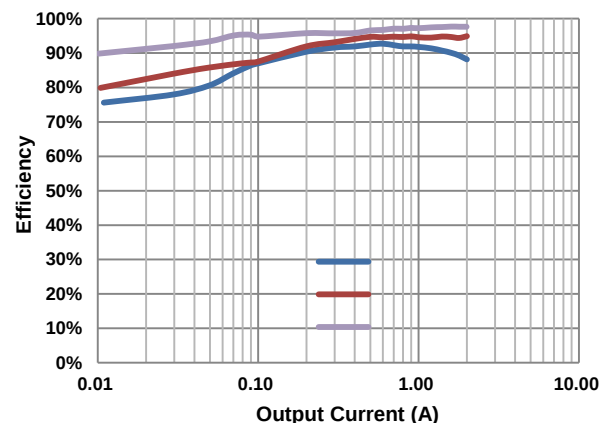
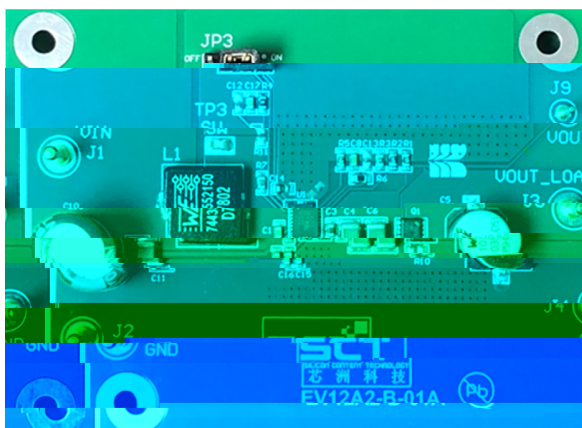
Board Number	IC Number

YDOWLRQ URGH LQFOKLQJ VSHFLILFDWLRLQ
PERFORANCESUMMARY
GLDDPELOORIPDWHULDOVDQGWKHERDUGODRW

Specifications are at TA = 25°C

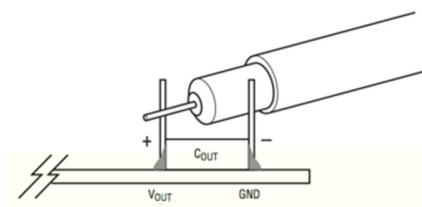
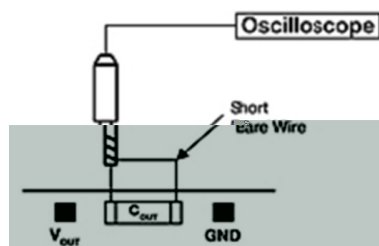
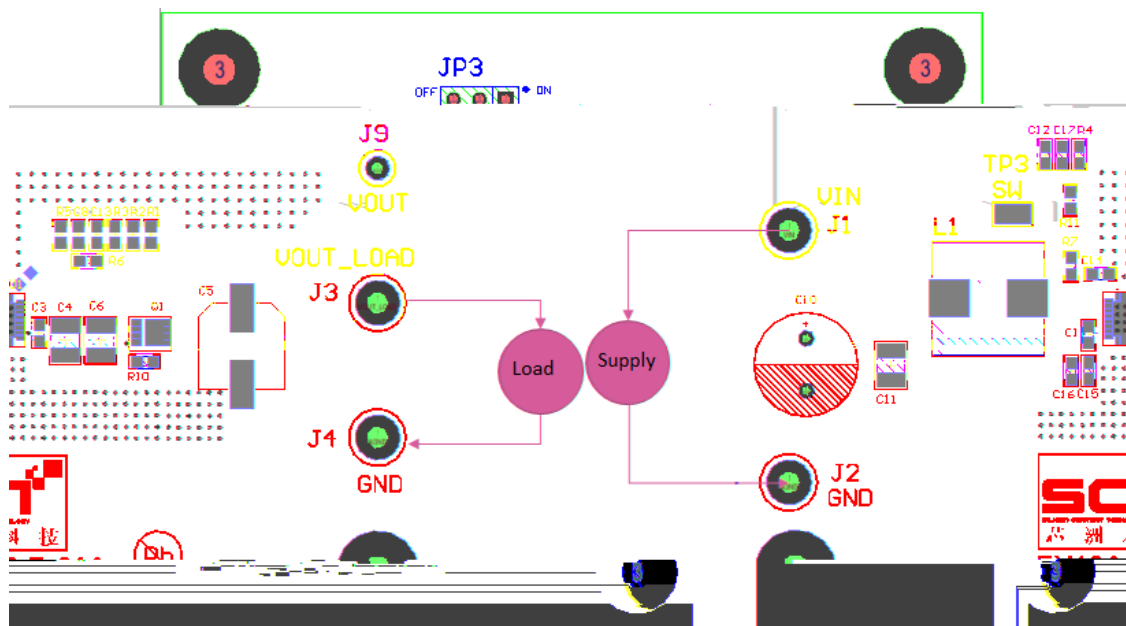
Table 1. Performance

Parameter	Condition	Value

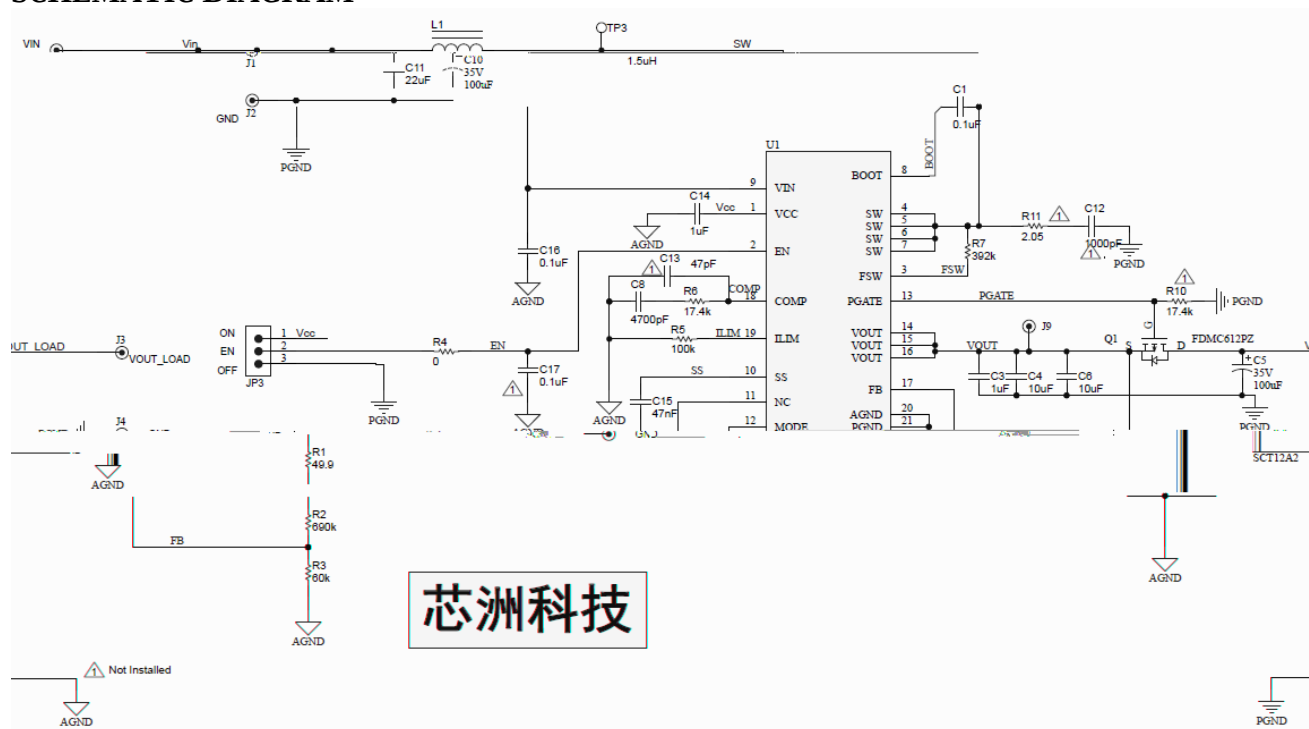


QUICK START PROCEDURE

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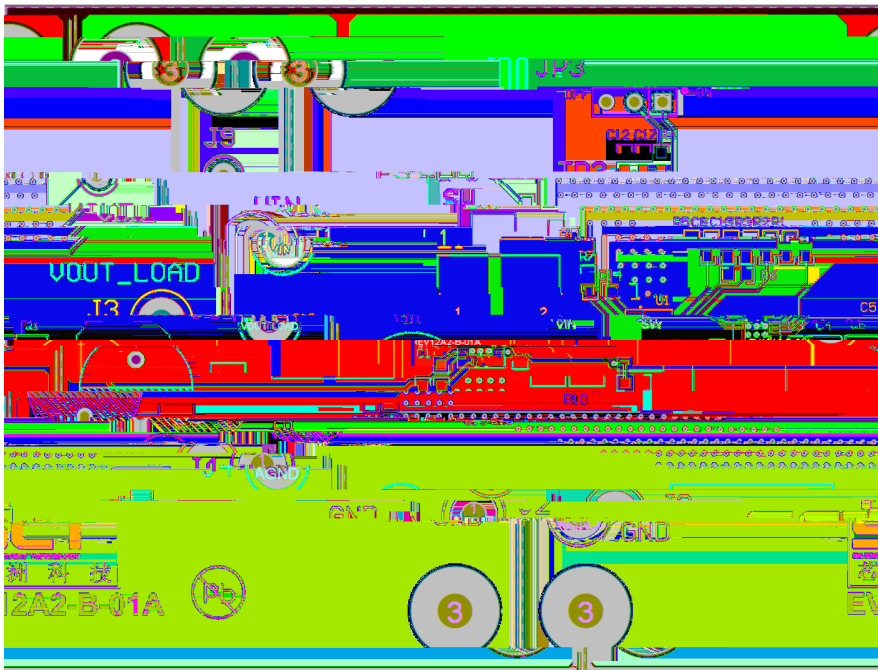
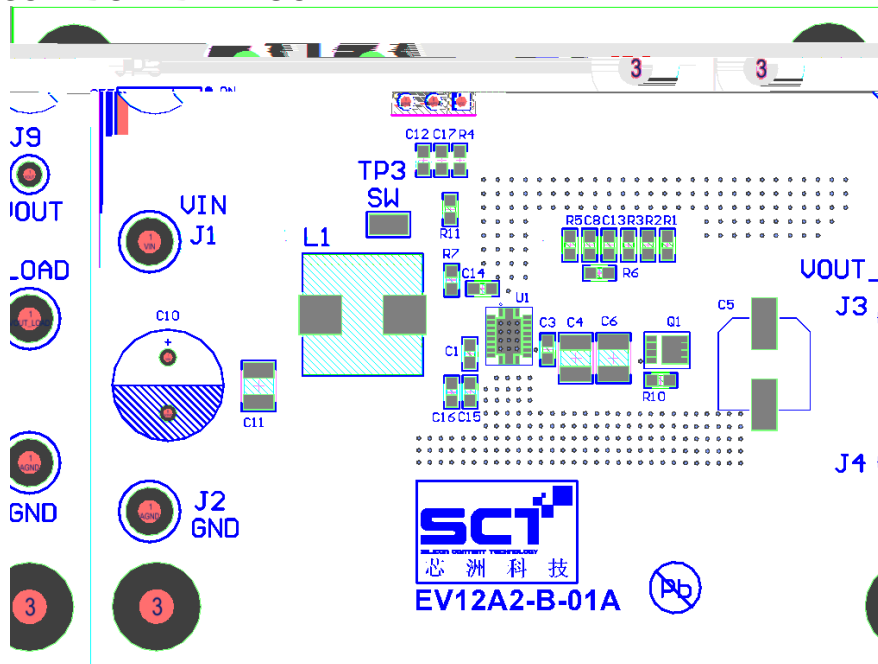
SCHEMATIC DIAGRAM



BILL OF MATERIALS

[illegible]

PRINTED CIRCUIT BOARD LAYOUT



30W

EV12A2-B-01A User's Guide

OPTIONAL MODIFICATION

Switching Frequency

-
-
-
-
-

Table 3. R_{FSW} Value for Common Switching Frequencies
($V_{in}=3.6V$, $V_{out}=15V$, Room Temperature)

F_{SW}	R_{FSW}

Peak Current Limit

- 15000
-
-

Table 4. R_{LIM} Value for Inductor Peak Current
($V_{in}=3.6V$, $V_{out}=15V$, $L=1.5\mu H$, Room Temperature)

I_{LIM}	R_{LIM}

Output Voltage

-
-

Table 5. Feedback Resistor R_3 R_4 Value for Output Voltage
(Room Temperature)

V_{OUT}	R_3	R_4

IMPORTANT NOTICE

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