



MAX3693 Evaluation Kit

Evaluates: MAX3693

General Description

The MAX3693 evaluation kit (EV kit) is an assembled, surface-mount demonstration board that provides easy evaluation of the MAX3693 622Mbps serializer with clock synthesis and LVDS inputs.

Component List

DESIGNATION	QTY	DESCRIPTION
C4-C9, C11, C12, C16-C21	14	0.1µF, 10%, 25V min ceramic capacitors
C13, C22	2	1µF, 10%, 10V min ceramic capacitors X7R type
C14	1	1µF, 10%, 25V min ceramic capacitor
C15	1	33µF, ±10%, 10V min tantalum capacitor AVX TAJD336K010
L1-L5	1	56nH inductors Coilcraft 0805CS-560XKBC
R1, R2, R11, C1-C3, C10, JU1, JU2, JU4, JU11-JU15	0	Not installed
R3, R4	2	27Ω, 5% resistors
R5, R6	2	220Ω, 5% resistors
R7, R8	2	130Ω, 5% resistors
R9, R10	2	24Ω, 5% resistors
R12	1	20kΩ, 5% resistor
PCLKI+, PCLKI-, PD0+, PD0-, PD1+, PD1-, PD2+, PD2-, PD3+, PD3-, PCLK0+, PCLK0-	12	SMB connectors (PC-mount)
RCLK+, RCLK-, SD+, SD-	4	SMA connectors (PC-mount)
GND, +3.3V	2	Test points
JU3	1	2x3 pin header
U1	1	MAX3693ECJ (32 TQFP)
	1	MAX3693 PC board
	1	MAX3693 data sheet
	1	Shunt for JU3

Component Suppliers

SUPPLIER	PHONE	FAX
AVX	803-946-0690	803-626-3123
Coilcraft	847-639-6400	847-639-1469



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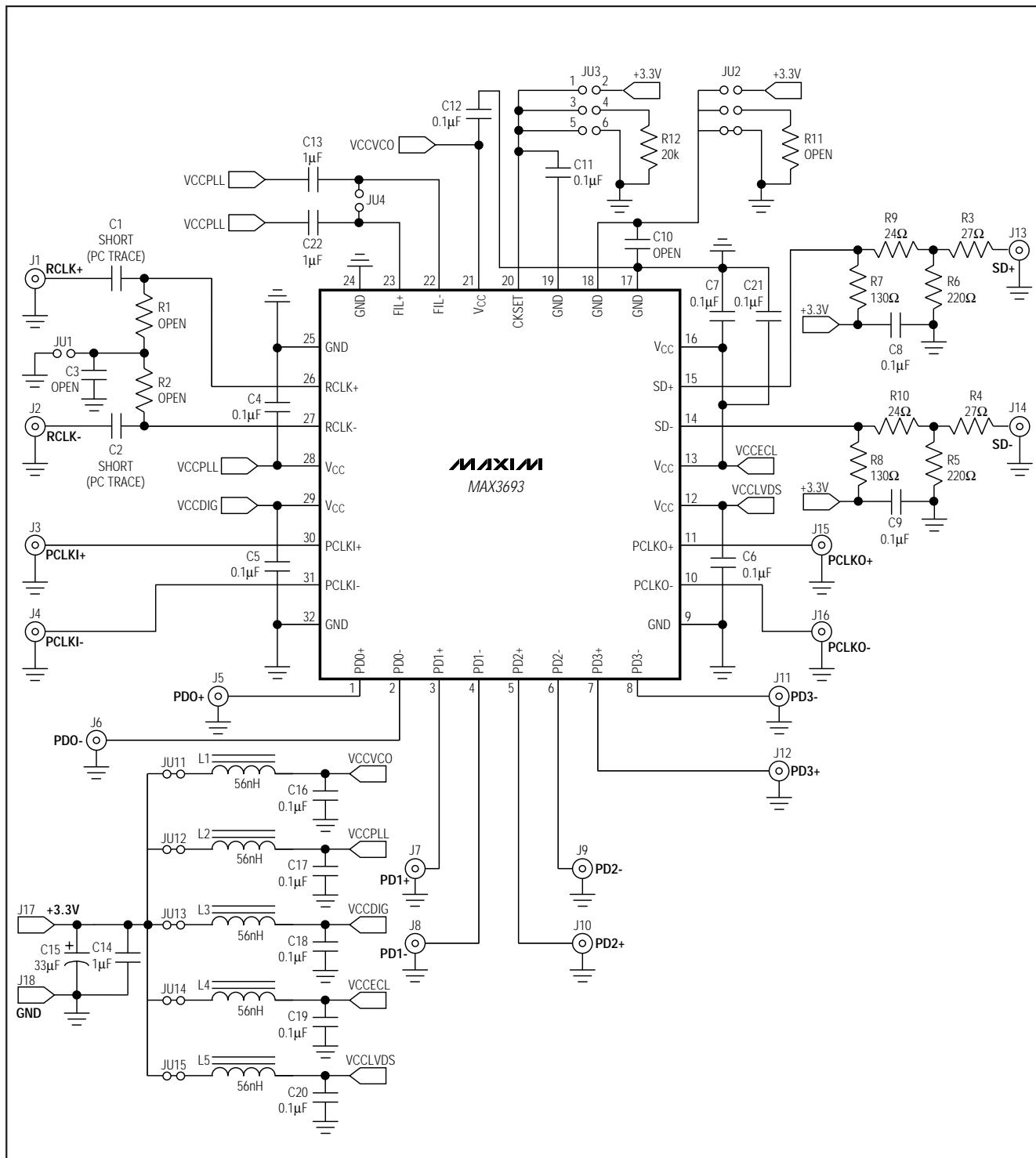


Figure 1. MAX3693 EV Kit Schematic

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Table 1. Jumper JU3 Functions

SHUNT LOCATION	REFERENCE CLOCK FREQUENCY (MHz)	CKSET PIN
1-2	155.52	Connected to V _{CC}
3-4	51.84	Connected through 20kΩ resistor to GND
5-6	38.88	Connected to GND
Open	77.76	Floating

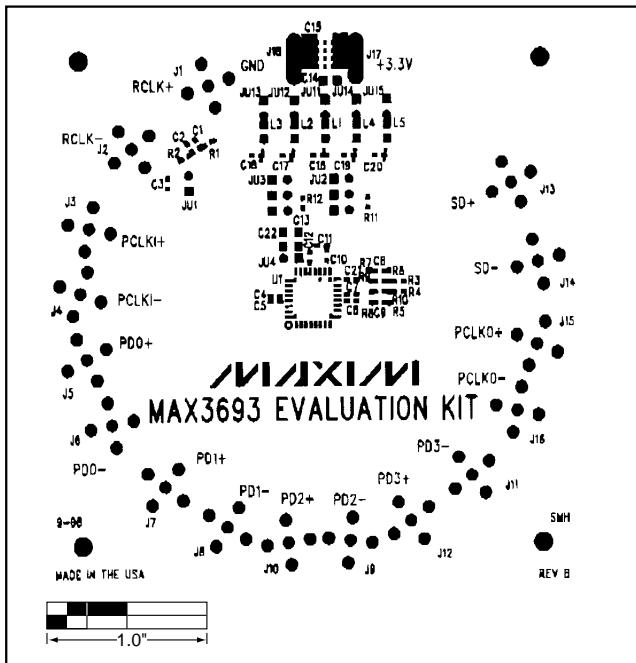
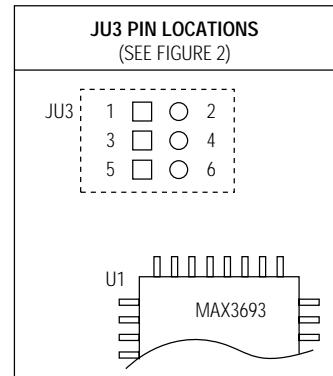


Figure 2. MAX3693 EV Kit Component Placement Guide—Component Side

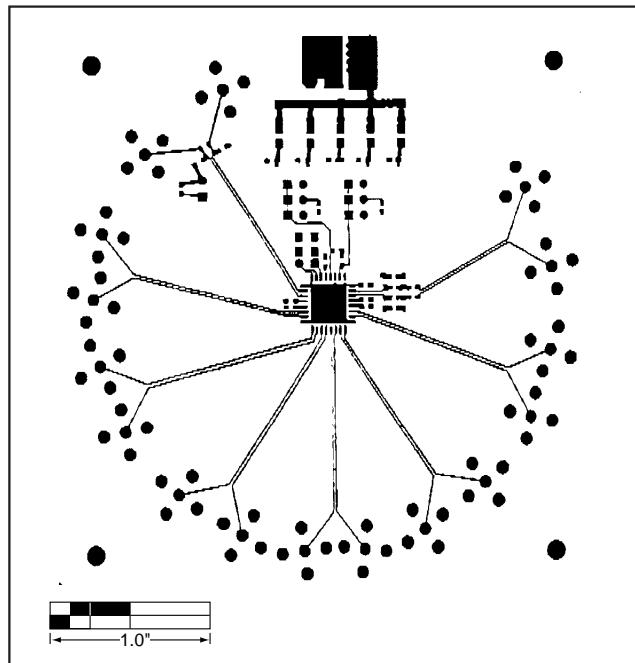


Figure 3. MAX3693 EV Kit PC Board Layout—Component Side

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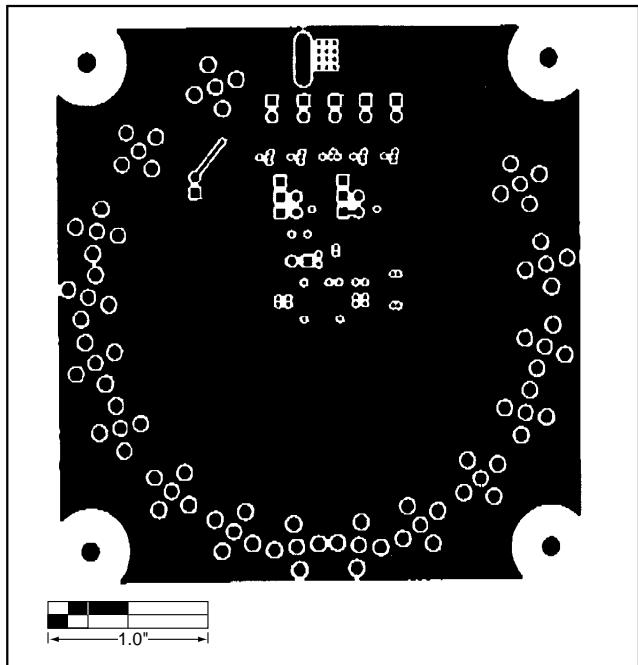


Figure 4. MAX3693 EV Kit PC Board Layout—Solder Side

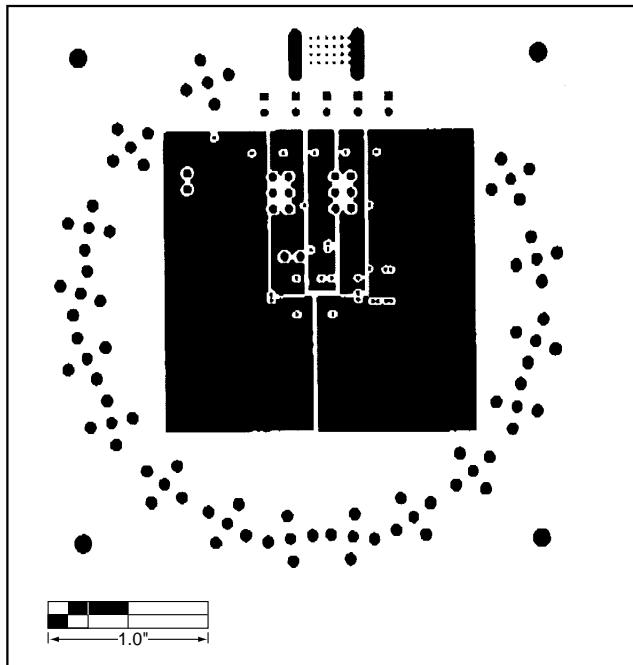


Figure 5. MAX3693 EV Kit PC Board Layout—Power Plane

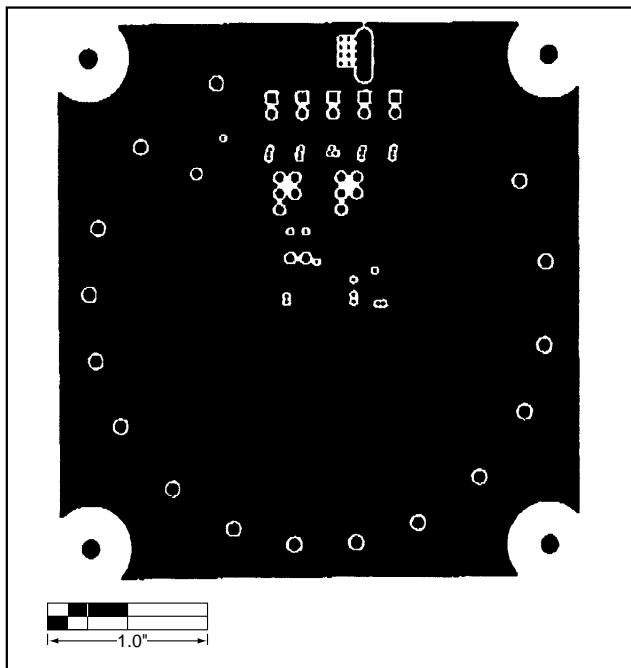


Figure 6. MAX3693 EV Kit PC Board Layout—GND Plane

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