

# MAX17292EVKIT#: Rev A

Item	Component Description	Qty
0001	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;	1
0002	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; RED; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;	7
0003	CAPACITOR; SMT; (1210); CERAMIC CHIP; 47UF; 16V; TOL=10%; MODEL=GRM SERIES; TG=-55 DEGC TO +85 DEGC; TC=X5R	1
0004	CAPACITOR; SMT; (0603); CERAMIC; 6200pF; 50V; ±5%; C0G, NP0; -55degC to + 125degC.	1
0005	CAPACITOR; SMT; (0603); CERAMIC; 150pF; 50V; ±5%; C0G, NP0; -55degC to + 125degC.	1
0006	CAPACITOR; SMT; (SMD); ALUMINUM-ELECTROLYTIC; 47UF; 50V; TOL=20%	1
0007	CAPACITOR; SMT; (0805); CERAMIC CHIP; 1UF; 50V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R	2
0008	CAPACITOR; SMT; (0603); CERAMIC CHIP; 2.2UF; 10V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R;	1
0009	CAPACITOR; SMT; (0402); CERAMIC CHIP; 0.1UF; 16V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R;	1
0010	CONNECTOR; FEMALE THREADED; THROUGH HOLE; SMA; STRAIGHT THROUGH; 5PINS	1
0011	DIODE; SCH; SMT; (SOT-1289); PIV=45V; IF=15A	1
0012	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 3PINS	2
0013	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 2PINS	1
0014	0.47uH, 18A inductor (7mm x 6.9mm)	1
0015	TRAN; N-CHANNEL POWERTRENCH MOSFET; NCH; SO-8; PD-(2.5W); I-(10A); V-(60V)	1
0016	RESISTOR; 0402; 90.9 KOHM; 1%; 100PPM; 0.10W; METAL FILM	1
0017	RESISTOR; 0402; 13.0 KOHM; 1%; 100PPM; 0.10W; METAL FILM	1
0018	RESISTOR; 1812; 0.022 OHM; 1%; 300PPM; 0.5W; THICK FILM	1
0019	RESISTOR; 0402; 1 KOHM; 1%	1
0020	RESISTOR; 0402; 6.81 KOHM; 1%	1
0021	RESISTOR; 0402; 10 KOHM; 5%	1
0022	RESISTOR; 0402; 12.1 KOHM; 1%	1
0023	RESISTOR; 0402; 0 OHM; 0%; JUMPER; 0.10W; THICK FILM	1
0024	CONNECTOR; MALE; PANELMOUNT; BANANA JACK; STRAIGHT; 1PIN	4
0025	EVKIT PART-IC; MAX17292; PACKAGE OUTLINE: 21-0136; PACKAGE CODE: T1233-4; TQFN12-EP	1
0026	PACKAGE OUTLINE 1210 NON-POLAR CAPACITOR	0
0027	PACKAGE OUTLINE 0402 NON-POLAR CAPACITOR	0
0028	PACKAGE OUTLINE 0603 NON-POLAR CAPACITOR	0
0029	PACKAGE OUTLINE 0402 RESISTOR	0
0030	PACKAGE OUTLINE 0603 RESISTOR	0
0031	PCB Board:MAX17292 EVALUATION KIT	1

Reference Designators	Manufacturer	Part Number
AGND	KEYSTONE	5001
EN, FB, FSET/SYNC, PGOOD, PVL, REFIN, SYNCO	KEYSTONE	5000
C1	MURATA	GRM32ER61C476KE15
C2	Kemet	C0603C622J5GAC7867
C3	Murata	GRM1885C1H151JA01D
C4	PANASONIC	EEE-1HA470XP
C5, C11	MURATA; SAMSUNG ELECTRONICS	GRM21BR71H105KA12; CL21B105KBFNNE
C6	MURATA	GRM188R71A225K
C12	MURATA	GRM155R71C104KA88J
COMP	JOHNSON COMPONENTS	142-0701-201
D1	NXP	PMEG045V150EPD
JU1, JU2	SULLINS	PEC36SAAN
JU3	SULLINS	PEC36SAAN
L1	Würth	Würth 744314047
N1	FAIRCHILD SEMICONDUCTOR	FDS5670
R1	PANASONIC	ERJ-2RKF9092X
R2	PANASONIC	ERJ-2RKF1302X
R3	PANASONIC	ERJ-L12KF22M
R4	PANASONIC	
R5	PANASONIC	
R6	PANASONIC	
R7	PANASONIC	
R9	PANASONIC	ERJ-2GE0R00X
PGND (2x), VOUT, SUP	EMERSON NETWORK POWER	108-0740-001
U1	MAXIM	MAX17292ETCF
C7	N/A	N/A
C8	N/A	N/A
C9, C10	N/A	N/A
R8, R11	N/A	N/A
R14, R15	N/A	N/A
PCB	MAXIM	MAX

Jumper Number	Shunt Location
JU1	1-2
JU2	2-3
JU3	Installed

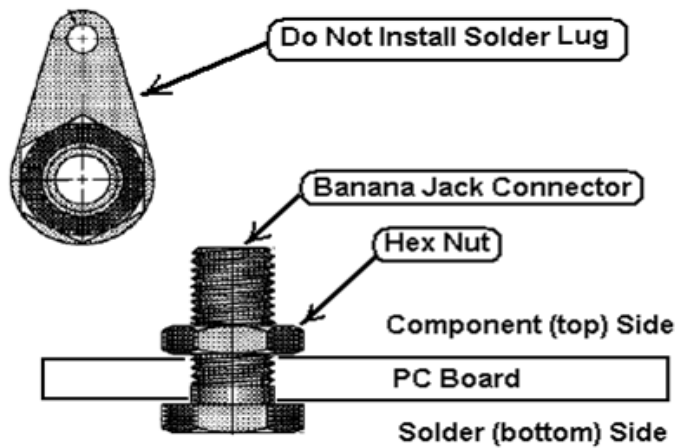


Figure 1. Banana Jack Connector Assembly Instruction

## MAX17292 Minimal Component Circuit

Item	Component Description	Qty	Reference Designators
0001	CAPACITOR; SMT; (1210); CERAMIC CHIP; 47UF; 16V; TOL=10%; MODEL=GRM SERIES; TG=-55 DEGC TO +85 DEGC; TC=X5R	1	C1
0002	CAPACITOR; SMT; (0603); CERAMIC; 6200pF; 50V; ±5%; C0G, NP0; -55degC to + 125degC.	1	C2
0003	CAPACITOR; SMT; (0603); CERAMIC; 150pF; 50V; ±5%; C0G, NP0; -55degC to + 125degC.	1	C3
0004	CAPACITOR; SMT; (SMD); ALUMINUM-ELECTROLYTIC; 47UF; 50V; TOL=20%	1	C4
0005	CAPACITOR; SMT; (0805); CERAMIC CHIP; 1UF; 50V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R	2	C5, C11
0006	CAPACITOR; SMT; (0603); CERAMIC CHIP; 2.2UF; 10V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R;	1	C6
0007	CAPACITOR; SMT; (0402); CERAMIC CHIP; 0.1UF; 16V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R;	1	C12
0008	DIODE; SCH; SMT; (SOT-1289); PIV=45V; IF=15A	1	D1
0009	0.47uH, 18A inductor (7mm x 6.9mm)	1	L1
0010	TRAN; N-CHANNEL POWERTRENCH MOSFET; NCH; SO-8; PD-(2.5W); I-(10A); V-(60V)	1	N1
0011	RESISTOR; 0402; 90.9 KOHM; 1%; 100PPM; 0.10W; METAL FILM	1	R1
0012	RESISTOR; 0402; 13.0 KOHM; 1%; 100PPM; 0.10W; METAL FILM	1	R2
0013	RESISTOR; 1812; 0.022 OHM; 1%; 300PPM; 0.5W; THICK FILM	1	R3
0014	RESISTOR; 0402; 1 KOHM; 1%	1	R4
0015	RESISTOR; 0402; 6.81 KOHM; 1%	1	R5
0016	RESISTOR; 0402; 12.1 KOHM; 1%	1	R7
0017	EVKIT PART-IC; MAX17292; PACKAGE OUTLINE: 21-0136; PACKAGE CODE: T1233-4; TQFN12-EP	1	U1
0018	PCB Board:MAX17292 EVALUATION KIT	1	PCB

Manufacturer	Part Number
MURATA	GRM32ER61C476KE15
Kemet	C0603C622J5GAC7867
Murata	GRM1885C1H151JA01D
PANASONIC	EEE-1HA470XP
MURATA; SAMSUNG ELECTRONICS	GRM21BR71H105KA12; CL21B105KBFNNNE
MURATA	GRM188R71A225K
MURATA	GRM155R71C104KA88J
NXP	PMEG045V150EPD
Wurth	Wurth 744314047
FAIRCHILD SEMICONDUCTOR	FDS5670
PANASONIC	ERJ-2RKF9092X
PANASONIC	ERJ-2RKF1302X
PANASONIC	ERJ-L12KF22M
PANASONIC	
PANASONIC	
PANASONIC	
MAXIM	MAX17292ETCF
MAXIM	MAX



