



Bill of Materials for the CS5171HVBSTGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1 C3-4 C6 C10	0	SMT CeramicCapacitor	NI	20%	1206	-	-	Yes	Yes
C12	1	SMT Ceramic Capacitor	1u	±10%	603	Taiyo Yuden	GMK107BJ105KA-T	Yes	Yes
CC	0	SMT Ceramic Capacitor COG	NI	±5%	603	-	-	Yes	Yes
CP	1	SMT Ceramic Capacitor	100n	±5%	603	Murata	GRM188R71C104JA01J	Yes	Yes
CP1	1	SMT Ceramic Capacitor	2.2uF	±20%	603	TDK Corporation	C1608X5R1A225M	Yes	Yes
C2	1	SMT Ceramic Capacitor	10uF	-20%, +80%	1210	Taiyo Yuden	GMK325F106ZH-T	Yes	Yes
U1	1	Step-Up (Boost) Regulator	280/560 kHz	NA	SOIC8	ON Semiconductor	CS5171GDR8G/CS5173ED	Yes	Yes
GND GND_IN	6	PRINTED CIRCUIT PIN	NA	NA	100 Mill	MIL MAX	3609-3-07-21-00-00-08-0	Yes	Yes
D1-5 D8	6	Standard Rectifier	100V 200mA	NA	SOD-123-2	ON Semiconductor	MMSD4148T3G	Yes	Yes
D7 D6	2	Standard Rectifier	30V 200mA	NA	SOD-123-2	ON Semiconductor	BAT54T1G	Yes	Yes
L0UT	1	SMT Inductor	33uH	20%	(12 x 12 x 6)mm	Würth	744771133	Yes	Yes
Q1	1	N-Channel Power Mosfet	100V 55mOhm	NA	DPAK-4	ON Semiconductor	NTD6415ANT4G	Yes	Yes
R1	1	SMT Resistor	162k	±1.0%	603	Vishay / Dale	CRCW0603162KFKEA	Yes	Yes
R2	1	SMT Resistor	3.16k	±1.0%	603	Vishay / Dale	CRCW06033K16FKEA	Yes	Yes
R3-4	2	SMT Resistor	165k	±1.0%	603	Vishay / Dale	CRCW0603165KFKEA	Yes	Yes
R5-6	2	SMT Resistor	0	±5.0%	603	Vishay / Dale	CRCW0603000Z0EA	Yes	Yes
R7	1	SMT Resistor	100R	±5.0%	603	Vishay / Dale	CRCW0603100RJNEAHP	Yes	Yes
RC	0	SMT Resistor	NI	±1.0%	603	-	-	Yes	Yes
RC1	1	SMT Resistor	4.99k	±1.0%	603	Vishay / Dale	CRCW06034K99FKEA	Yes	Yes
C5 C9 C11	3	Aluminum Electrolytic Capacitor	2.2uF 100V	±20%	TH	Panasonic - ECG	ECA-2AM2R2	Yes	Yes
C7-8	2	Aluminum Electrolytic Capacitor	1.0uF 100V	±20%	TH	Panasonic - ECG	ECA-2AM010	Yes	Yes