

# Linear Technology Corporation

LT3519EMS-1 / LT3519EMS-2  
HIGH FREQUENCY SEPIC LED DRIVER

Bill Of Materials  
DC1612A

2/23/2010 1:13 PM

Item	Qty	Reference	Part Description	Manufacture / Part Number
<b>REQUIRED ELECTRICAL COMPONENTS</b>				
1	2	C1,C2	Cap., X7R 1uF 50V 10%	Murata, GRM21MR71H105KA88L 0805
2	1	C3 (-A version only)	Cap., X7R 2.2uF 50V 10%	Murata, GRM31CR71H225KA88L 1206
2	1	C3 (-B version only)	Cap., X7R 1uF 50V 10%	Murata, GRM21MR71H105KA88L 0805
3	1	C4	Cap., X7R 2.2uF 25V 10%	Murata, GRM31BR71E225KA88L 1206
4	2	L1,L2 (-A version only)	Inductor, 22uH SMT	Coilcraft, LPS4012-223ML
4	2	L1,L2 (-B version only)	Inductor, 10uH SMT	Coilcraft, LPS3015-103ML
5	1	M1	Mosfet, N-Channel 40-V (D-S)	Vishay, Si2318DS SOT-23
6	1	R1	Res., Chip 1.67 1/10W 1%	Vishay, CRCW08051R67FNED 0805
7	1	R2	Res., Chip 1M 1/16W 1%	Vishay, CRCW04021M00FKED 0402
8	1	R3	Res., Chip 69.8k 1/16W 1%	Vishay, CRCW040269K8FKED 0402
9	1	U1 (-A version only)	I.C., 1MHz LED Driver LTC	Linear Technology, LT3519EMS-1
9	1	U1 (-B version only)	I.C., 2.2MHz LED Driver LTC	Linear Technology, LT3519EMS-2
<b>OPTIONAL ELECTRICAL COMPONENTS</b>				
1	0	C5	OPTIONAL	
2	0	C6	OPTIONAL	
3	0	Q1	OPTIONAL	
4	2	R4,R6	Res., Chip 1M 1/16W 1%	Vishay, CRCW04021M00FKED 0402
5	1	R5 (-A version only)	Res., Chip 261k 1/16W 1%	Vishay, CRCW0402261KFKED 0402
5	1	R5 (-B version only)	Res., Chip 215k 1/16W 1%	Vishay, CRCW0402215KFKED 0402
6	1	R7	Res., Chip 174k 1/16W 1%	Vishay, CRCW0402174KFKED 0402
7	1	R8	Res., Chip 0	Vishay, CRCW12060000Z0ED 1206
8	1	R9	Res., Chip 0	Vishay, CRCW08050000Z0ED 0805
9	1	R10	Res., Chip 100k 1/16W 1%	Vishay, CRCW0603100KFKED 0603
10	0	R11,R12,R13,R15,R16,R17	OPTIONAL	
11	0	R14	OPTIONAL	
<b>HARDWARE</b>				
1	13	E1-E13	Testpoint, Turret, .094"	Mill-Max, 2501-2