Lnr: D112 Tec: GER
21.02.2017

Total Results Mean:	**Failure Rate fit**	**MTBF h**	**MTBF a**
EN/IEC 61709 (SN 29500)	**2 225**	**449 534**	**51,3**

Missing component or operating data leads to the following result range:

EN/IEC 61709 (SN 29500): Failure Rate: 2 193 - 2 256 fit MTBF: 50,6 - 52,1 a

The results are valid under following conditions:

SNA: Nonmobile operation ground benign
Tu: 50°C mean component ambient temperature
Zf: Continuous operation 8760 h per year

Individual application data considered for 0 out of 152 positions

1 fit equals one failure per 10^9 component hours

Mean failure rates of the component groups: EN/IEC 61709 (SN 29500)

Quantity	Component Group	fit	Percent.
24	Transistors	834	37,5 %
147	Capacitors	416	18,7 %
14	IC analogue	218	9,8 %
201	Resistors	180	8,1 %
6	Optoelectronics	159	7,1 %
28	Other Components	141	6,3 %
12	Semiconductors Power	126	5,6 %
17	Connectors Sockets	53	2,4 %
29	Diodes	45	2 %
	Electr. Connections	42	1,9 %
2	Relays Switches	11	0,5 %
480	Sum	2 225	100 %

Failure rates for all positions of the Quality-list:

Items with individual stress data considered are marked by +
Items using individual base failure rates are marked by «

Quantity	Description	Type	Failure Rate single	FR total
2	VDR-470VDC,99-05-101121-X,Bac=4510,Gec=DRAHT Varistor,Zfr=100%,Tref=40,Tb=50,Ar=1,VDR-470V CNR-14D471K/TVR14471KSY	SN 1	2 fit	
2	MMBT3906,93-05-030129-B,Bac=2110,Tec=1202 Geh=SOT23/3,Transistor small signal bipolar PNP,Rte=450,Tjmax=150 Umax=40,Nmax=300,Zfr=100%,Tref=55,Tj=65,Ar=3,A=.9,Ea1=.3,Ea2=.7 πt=1.5,Vuv=.5,General Purpose Transistor PNP 200mA MMBT3906-GSE	SN 4.49	9 fit	
4	FMMT720,93-05-030020-E,Bac=2110,Tec=1202 Geh=SOT23/3,Transistor small signal bipolar PNP,Rte=375,Umax=40 Nmax=625,Imax=4,Zfr=100%,Tref=55,Tj=65,Ar=3,A=.9,Ea1=.3,Ea2=.7, πt=1.5 Vuv=.5,PNP TRANSISTOR MEDIUM POWER 200mA FMMT591-ZETEX	SN 4.49	18 fit	
1	RN1401,93-05-030136-6,Bac=2110,Tec=1100 Geh=SOTSC-59/3,Transistor small signal bipolar NPN,Umax=50,Zfr=100% Tref=55,Tj=65,Ar=3,A=.9,Ea1=.3,Ea2=.7, πt=1.5,Vuv=.5,NPN Epitaxial Type with build in bias resistors	SN 4.49	4,5 fit	
2	FMMT619,93-05-001077-A,Bac=2110,Tec=1102 Geh=SOT23/3,Transistor small signal bipolar NPN,Umax=50,Zfr=100% Tref=55,Tj=65,Ar=3,A=.9,Ea1=.3,Ea2=.7, πt=1.5,Vuv=.5,FMMT619 npn-Transistor 2A 50V	SN 4.49	9 fit	
1	CT-6EX,77-05-880064-L,Bac=4270,Gec=DRAHT,Resistor variable,Tbmax=120,Zfr=100%,Tref=55,Tb=65,Ar=30,A=.873,Ea1=.16 Ea2=.44, πt=1.26,5k Trimmer	SN 37.8	37,8 fit	
1	OAR3,7A-05-C40009-Z,Bac=4260,Gec=DRAHT,Resistor wire-wound,Tbmax=125,Zfr=100%,Tref=85,Tb=95,Ar=5,A=.873,Ea1=.16 Ea2=.44, πt=1.26,15mR 3W Metal Element Current Sense	SN 6.32	6,3 fit	

3 RES-680K-1-0805,71-05-341552-1,Bac=4230,Resistor SN 0.252 0,8 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 680K 1% 1/8W 0805 PT 8x4MM

2 RES-470R-1-0805,71-05-341191-1,Bac=4230,Resistor SN 0.252 0,5 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 470 OHM 1% 1/8W 0805 PT 8x4MM

2 RES-470K-0125-0805,71-05-341533-1,Bac=4230,Resistor SN 0.252 0,5 fit
metal film,Nmax=100,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP-RES 470k 0.125W 1% 0805 100ppm

1 RES-330R-1-0805,71-05-341172-1,Bac=4230,Resistor SN 0.252 0,3 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 330 OHM 1% 1/8W 0805 PT 8x4MM

2 RES-330K-1-0805,71-05-341514-1,Bac=4230,Resistor SN 0.252 0,5 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 330K 1% 1/8W 0805 PT 8x4MM

1 RES-270R-1-0805,71-05-341162-1,Bac=4230,Resistor SN 0.252 0,3 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 270 OHM 1% 1/8W 0805 PT 8x4MM

2 RES-270K-1-0805,71-05-341504-1,Bac=4230,Resistor SN 0.252 0,5 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 270K 1% 1/8W 0805 PT 8x4MM

2 RES-220R-1-0805,71-05-341151-1,Bac=4230,Resistor SN 0.252 0,5 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 220 OHM 1% 1/8W 0805 PT 8x4MM

4 RES-220K-1-0805,71-05-341493-1,Bac=4230,Resistor SN 0.252 1 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 220K 1% 1/8W 0805 PT 8x4MM

3 RES-150K-1-0805,71-05-341475-1,Bac=4230,Resistor SN 0.252 0,8 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 150K 1% 1/8W 0805 PT 8x4MM

1 RES-120K-0125-0805,71-05-341465-1,Bac=4230,Resistor SN 0.252 0,3 fit
metal film,Nmax=100,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP-RES 120k 0.125W 1% 0805 100ppm

4 RES-100R-1-0805,71-05-341115-1,Bac=4230,Resistor SN 0.252 1 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 100 OHM 1% 1/8W 0805 PT 8x4MM

3 RES-100K-1-1206,71-05-541457-1,Bac=4230,Resistor SN 0.252 0,8 fit
metal film,Nmax=250,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 100K 1% 1/4W 1206 PT 8x4MM

6 RES-100K-1-0805,71-05-341457-1,Bac=4230,Resistor SN 0.252 1,5 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 100K 1% 1/8W 0805 PT 8x4MM

1 RES-68K-0125-0805,71-05-341438-1,Bac=4230,Resistor SN 0.252 0,3 fit
metal film,Nmax=100,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP-RES 68k 0.125W 1% 0805 100ppm

2 RES-56K0-1-0805,71-05-341428-1,Bac=4230,Resistor SN 0.252 0,5 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 56K 1% 1/8W 0805 PT 8x4MM

3 RES-47R-0125-0805,71-05-342077-1,Bac=4230,Resistor SN 0.252 0,8 fit
metal film,Nmax=100,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP-RES 47R 0.125W 1% 0805 100ppm

1 RES-47K0-1-0805,71-05-341419-1,Bac=4230,Resistor SN 0.252 0,3 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 47K 1% 1/8W 0805 PT 8x4MM

7 RES-33K0-1-0805,71-05-341400-1,Bac=4230,Resistor SN 0.252 1,8 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 33K 1% 1/8W 0805 PT 8x4MM

3 RES-27K0-1-0805,71-05-341390-1,Bac=4230,Resistor SN 0.252 0,8 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 27K 1% 1/8W 0805 PT 8x4MM

1 WW-RES-22R-5W,75-05-E71011-9,Bac=4260,Gec=DRAHT SN 6.32 6,3 fit
Resistor wire-wound,Tbmax=155,Zfr=100%,Tref=85,Tb=95,Ar=5,A=.873
Ea1=.16,Ea2=.44, πt=1.26,WW Res 22R 5W

1 RES-22R0-1-0805,71-05-342037-1,Bac=4230,Resistor SN 0.252 0,3 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 22 OHM 1% 1/8W 0805 PT 8x4MM

3 RES-22K0-1-0805,71-05-341379-1,Bac=4230,Resistor SN 0.252 0,8 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 22K 1% 1/8W 0805 PT 8x4MM

1	RES-20K0-1-0805,71-05-341375-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 20K0 1% 1/8W 0805 PT 8x4MM	0,3 fit
4	RES-18K0-1-0805,71-05-341370-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 18K 1% 1/8W 0805 PT 8x4MM	1 fit
6	RES-15K0-1-0805,71-05-341361-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 15K 1% 1/8W 0805 PT 8x4MM	1,5 fit
2	RES-12K0-1-0805,71-05-341351-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 12K 1% 1/8W 0805 PT 8x4MM	0,5 fit
2	RES-10R0-1-1206,71-05-543115-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=250,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 10 OHM 1% 1/4W 1206 PT 8x4MM	0,5 fit
9	RES-10R0-1-0805,71-05-342001-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 10 OHM 1% 1/8W 0805 PT 8x4MM	2,3 fit
18	RES-10K0-1-0805,71-05-341343-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 10K 1% 1/8W 0805 PT 8x4MM	4,5 fit
1	RES-8K20-1-0805,71-05-341333-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 8.2K 1% 1/8W 0805 PT 8x4MM	0,3 fit
4	CHIP-RES 6R8 0805,71-05-342910-1,Bac=4240,Gec=SMT SN 6.32 Resistor metal oxide,Tbmax=155,Zfr=100%,Tref=85,Tb=95,Ar=5,A=.873 Ea1=.16,Ea2=.44, πt=1.26,Chip-Res 6R8 0.125W 1% 0805 200ppm	25,3 fit
3	RES-6K80-1-0805,71-05-341324-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 6.8K 1% 1/8W 0805 PT 8x4MM	0,8 fit
1	M251206BB5108JP5,71-AE-000289-1,Bac=4230,Gec=SMT SN 0.252 Resistor metal film,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,Fusible Resistor 5R1 0.25W 1206	0,3 fit
4	RES-5K60-1-0805,71-05-341314-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 5.6K 1% 1/8W 0805 PT 8x4MM	1 fit
3	RES-2R2-1-0805,71-05-342777-X,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 2R21% 1/8W 0805 PT 8x4MM	0,8 fit
6	RES-4K70-1-0805,71-05-341305-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 4.7K 1% 1/8W 0805 PT 8x4MM	1,5 fit
2	RES-3K90-1-0805,71-05-341295-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 3.9K 1% 1/8W 0805 PT 8x4MM	0,5 fit
5	RES-3K30-1-0805,71-05-341286-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 3.3K 1% 1/8W 0805 PT 8x4MM	1,3 fit
15	RES-2M20-1-0805,71-05-342607-X,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 2.2M 1% 1/8W 0805 PT 8x4MM	3,8 fit
2	RES-2K70-1-0805,71-05-341276-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 2.7K 1% 1/8W 0805 PT 8x4MM	0,5 fit
4	RES-2K20-1-0805,71-05-341265-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 2.2K 1% 1/8W 0805 PT 8x4MM	1 fit
3	CHIP-RES 1M2 0603,71-05-240602-6,Bac=4230,Gec=SMT SN 0.252 Resistor metal film,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP-RES 1M2 0.1W 1% 0603100ppm RCT03	0,8 fit
7	RES 1M 0805,71-05-341571-1,Bac=4230,Gec=SMT,Resistor SN 0.252 metal film,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873,Ea1=.16 Ea2=.44, πt=1.26,CHIP RES 1M 1% 1/8W 0805	1,8 fit
6	RES-1K80-1-0805,71-05-341256-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 1.8K 1% 1/8W 0805 PT 8x4MM	1,5 fit
2	RES-1K20-1-0805,71-05-341237-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 1.2K 1% 1/8W 0805 PT 8x4MM	0,5 fit

3 RES-1K00-1-1206,71-05-541229-1,Bac=4230,Resistor SN 0.252 0,8 fit
metal film,Nmax=250,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 1K 1% 1/4W 1206 PT 8x4MM

12 RES-1K00-1-0805,71-05-341229-1,Bac=4230,Resistor SN 0.252 3 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 1K 1% 1/8W 0805 PT 8x4MM

3 RES-0R0005-1-2512,71-05-B40502-A,Bac=4260,Gec=SMT SN 6.32 19 fit
Resistor wire-wound,Tbmax=170,Zfr=100%,Tref=85,Tb=95,Ar=5,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP-RES 0R0005 2W 1% 2512 50ppm CSNL

2 RES-0R00-1-1206,71-05-000005-1,Bac=4230,Resistor SN 0.252 0,5 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 0 OHM 1% 1/8W 1206 PT 8x4MM

7 RES-0R00-1-0805,71-05-000004-1,Bac=4230,Resistor SN 0.252 1,8 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 0 OHM 1% 1/8W 0805 PT 8x4MM

1 835NL-1A--C12VDC,54-AE-000006-1,Bac=5321,Tec=2120 SN 5.03 5 fit
Pin=4,Relay general switching plastic-sealed Fcont>20cN 1 contacts
Vf=1,Tbmax=85,Zfr=100%,Tref=40,Tb=50,Ar=5,A=.006,Ea1=.646, πt=1.01
Labv=3,Klv=R,Acdcv=A, πla=1,RELAY 12A !"VDC 835NL-1A--C12VDC

1 RELAY G5V-1 12V 1A,54-05-101012-X,Bac=5321,Tec=3110 SN 6.11 6,1 fit
Pin=6,Relay general switching dust-tight Fcont>20cN 1 contacts,Vf=1
Tbmax=70,Zfr=100%,Tref=40,Tb=50,Ar=5,A=1,Ea1=.175, πt=1.22,Labv=3
Klv=R,Acdcv=A, πla=1,RELAY G5V-1 12V 1A

1 PTC 470 OHM 105DEG,76-05-AA1001-X,Bac=4520,Gec=SMT SN 5 5 fit
PTC thermistor,Tbmax=120,Zfr=100%,Tref=40,Tb=50,Ar=5,PTC(SMD0805)-470r
105deg TPM2S471P105R

1 TPM2S471P095R,76-05-AA1002-X,Bac=4520,Gec=SMT,PTC SN 5 5 fit
thermistor,Tbmax=120,Zfr=100%,Tref=40,Tb=50,Ar=5,PTC(SMD0805)-470r
95deg TPM2S471P095R

1 RES-12R0-1-0805,71-05-342009-1,Bac=4230,Resistor SN 0.252 0,3 fit
metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 12 OHM 1% 1/8W 0805 PT 8x4MM

1 NCP21XQ102J03RA,76-05-U72033-J,Bac=4270,Gec=SMT SN 37.8 37,8 fit
Resistor variable,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=30,A=.873
Ea1=.16,Ea2=.44, πt=1.26,NTC(SMD0805)-1K 5% 25deg

1 TLPH5600 RD,97-05-030213-7,Bac=3211,LED radial/SMT SN 15.8/42 28,9 fit
Tumax=100,Rte=400,Ntyp=75,Imax=0.03,Zfr=100%,Tj=80,Ar=1.5/4,Tref=45
A=1,Ea1=.65, πt=10.51,Viv=.5,LED TLPH5600 RD

1 TLPG5600 GN,97-05-030214-7,Bac=3211,LED radial/SMT SN 15.8/42 28,9 fit
Tumax=100,Rte=400,Ntyp=75,Imax=0.03,Zfr=100%,Tj=80,Ar=1.5/4,Tref=45
A=1,Ea1=.65, πt=10.51,Viv=.5,LED TLPG5600 GN

3 LM431BIM3,96-05-100265-X,Bac=1620,Tec=1002,Geh=SO/8 SN 4.48 13,4 fit
IC Analog reference element bipolar SSI,K1=2/30t,Rte=154,Tumax=85
Umax=37,Zfr=100%,Tref=45,Tj=55,Ar=3,A=.9,Ea1=.3,Ea2=.7, πt=1.49
Adjustable Precision Zener Shunt Regulator LM431BIM3-NSC

1 L6699DTR,96-05-031242-G,Bac=1640,Tec=1002,Geh=SO/16 SN 29.9 29,9 fit
IC Analog switched regulator bipolar LSI,K1=300/3Kt,Rte=120,Tumax=150
Umax=600,Zfr=100%,Tref=55,Tj=65,Ar=20,A=.9,Ea1=.3,Ea2=.7, πt=1.5
IC-L6699DTR SO-16N

4 FOD817B,96-05-130085-X,Bac=3310,Tec=1002,Geh=DIP/6 SN 25.3 101,3 fit
Optocoupler with bipolar output,Rte=500,Zfr=100%,Tref=55,Tj=65,Ar=15
A=1,Ea1=.5, πt=1.69,OPTO-KOPPLER FOD817B

1 LM2904D,96-05-100584-X,Bac=1610,Tec=1002,Geh=SO/8,IC SN 4.49 4,5 fit
Analog Op-amplifier/compar. Bipolar SSI,K1=1/30t,Rte=120,Umax=26
Zfr=100%,Tref=55,Tj=65,Ar=3,A=.9,Ea1=.3,Ea2=.7, πt=1.5,Vuv=.7, πs=1,2X
OPERATIONSVERSTAERKER 2mA LM2904M-NSC

2 LM2902D,96-05-100324-X,Bac=1610,Tec=1002,Geh=SO/14 SN 8.98 18 fit
IC Analog Op-amplifier/compar. Bipolar MSI,K1=30/300t,Rte=110,Umax=32
Zfr=100%,Tref=55,Tj=65,Ar=6,A=.9,Ea1=.3,Ea2=.7, πt=1.5,Vuv=.7, πs=1,4X
OPERATIONSVERSTAERKER LM2902D-VALVO LM2902M-NSC

4 ZXGD3101N8,96-05-030987-Z,Bac=1640,Tec=4002 SN 15 59,9 fit
Geh=SO/8,IC Analog switched regulator CMOS MSI,K1=30/300t,Rte=255
Tumax=150,Umax=15,Rtjce=120,Imax=4,Zfr=100%,Tref=55,Tj=65,Ar=10,A=.9
Ea1=.3,Ea2=.7, πt=1.5,IC ZXGD3101N8 SO-8 Sync. Ctrl. Diodes Inc.

1 TEA1721A,96-05-031136-1,Bac=1632,Tec=2002,Geh=SO/7 SN 76.9 76,9 fit
IC Analog power amplifier/regulator >1Watt BIFET MSI,K1=30/300t
Rte=136,Tumax=85,Umax=700,Tjmax=150,Zfr=100%,Tref=90,Tj=100,Ar=50
A=.9,Ea1=.3,Ea2=.7, πt=1.54,IC TEA1721A SO-7 Off-line PWM Switch NXP

1 NCP1631DR2G,96-05-031246-6,Bac=1640,Tec=4002 SN 6.96 7 fit«
Geh=SO/16,IC Analog switched regulator CMOS MSI,K1=30/300t,Rte=145
Tumax=125,Umax=20,Ari=4.65,Zfr=100%,Tref=55,Tj=65,Ar=10,A=.9,Ea1=.3
Ea2=.7, πt=1.5,IC-NCP1631DR2G SO-16 Interleaved PFC CTRL. ONSEMI

1 INA282,96-05-002119-4,Bac=1610,Tec=1002,Geh=SO/8,IC SN 8.98 9 fit
Analog Op-amplifier/compar. Bipolar MSI,K1=30/300t,Tumax=125,Umax=80
Zfr=100%,Tref=55,Tj=65,Ar=6,A=.9,Ea1=.3,Ea2=.7, πt=1.5,Vuv=.7, πs=1
IC-INA282AID SO-8

1 FUSE 10A,55-05-000051-E,Bac=5630,Melting fuse SN 25 25 fit
Zfr=100%,Tref=40,Tb=50,Ar=25,BLADE FUSE 10A with CLIP 3522_2x

2 RRR030P03,95-05-030314-Z,Bac=2110,Tec=3000 SN 7.48 15 fit
Geh=SOTTSMT3/3,Transistor small signal MOSFET,Rte=125,Umax=30
Zfr=100%,Tref=55,Tj=65,Ar=5,A=.9,Ea1=.3,Ea2=.7, πt=1.5,Vuv=.5,P MOSFET
3A 30V RRR030P03 TSMT3

2 TK31N60W,95-05-030317-Z,Bac=2140,Tec=3002 SN 92.6 185,3 fit
Geh=TO247/3,Transistor power MOS,Rte=50,Tjmax=150,Umax=600,Imax=30
Nmax=230000,Rtjce=0.543,Zfr=100%,Tref=100,Tj=110,Ar=60,A=.9,Ea1=.3
Ea2=.7, πt=1.54,Vuv=.5,MOSFET-N 600V 30A TK31N60W TO247

2 IPP60R074C6,95-05-030313-2,Bac=2140,Tec=3002 SN 92.6 185,3 fit
Geh=TO220/3,Transistor power MOS,Rte=62,Tjmax=150,Umax=650,Imax=151
Rtjce=0.26,Nmax=480000,Zfr=100%,Tref=100,Tj=110,Ar=60,A=.9,Ea1=.3
Ea2=.7, πt=1.54,Vuv=.5,MOSFET 151A 650V IPP60R074C6 TO220

4 IPB011N04NG,95-05-030315-2,Bac=2140,Tec=3002 SN 92.6 370,5 fit
Geh=TO263-7/7,Transistor power MOS,Rte=40,Tjmax=175,Umax=40,Imax=180
Nmax=250000,Rtjce=0.6,Zfr=100%,Tref=100,Tj=110,Ar=60,A=.9,Ea1=.3
Ea2=.7, πt=1.54,Vuv=.5,MOSFET 180A 40V IPB011N04NG D2PAK-7

5 2N7002P,95-05-030279-1,Bac=2110,Tec=3002 SN 7.48 37,4 fit
Geh=SOT23/3,Transistor small signal MOSFET,Fuq=HYB,Tecq=NFET
Rttq=625/150/*,El1q=60V/360mA,Nmax=420,Tjmax=150,Umax=60,Imax=0.36
Rte=310,Rtjce=115,Zfr=100%,Tref=55,Tj=65,Ar=5,A=.9,Ea1=.3,Ea2=.7
πt=1.5,Vuv=.5,N-MOSFET 360mA 60V SOT23

6 FERRITE BEAD,35-05-100001-X,Bac=4320,Inductor for SN 1.73/3.45 15,5 fit
EMC applications,Tbmax=125,Zfr=100%,Tref=60,Tb=70,Ar=1.5/3,A=.996
Ea1=.06,Ea2=1.13, πt=1.15,Ferrite Bead PX03051A-BD3.5/1.3/3.3-4S2

4 E-CAP 1800UF 35V,8B-05-681053-X,Bac=4140,Tec=2000 SN 9.66 38,6 fit
Gec=DRAHT,Cap. Al-electrolytic non-solid electrolyte,Tbmax=105
Umax=35,Zfr=100%,Tref=40,Tb=50,Ar=5,A=.87,Ea1=.5,Ea2=.95, πt=1.93
Vuv=.8, πs=1,E-CAP 1800uF 35V 20% 12.5x35 105deg

5 PCR1VPF221MBABLL35,8B-05-880133-E,Bac=4140,Tec=1000 SN 3.21 16 fit
Gec=DRAHT,Cap. Al-electrolytic solid electrolyte,Tbmax=105,Umax=35
Zfr=100%,Tref=40,Tb=50,Ar=3,A=.4,Ea1=.14, πt=1.07,Vuv=.8, πs=1,E-CAP
220uF 35V 20% 8x11.5 105deg Polymer

4 450CXW150M,8B-05-U80092-6,Bac=4140,Tec=2000 SN 9.66 38,6 fit
Gec=DRAHT,Cap. Al-electrolytic non-solid electrolyte,Tbmax=105
Umax=450,Zfr=100%,Tref=40,Tb=50,Ar=5,A=.87,Ea1=.5,Ea2=.95, πt=1.93
Vuv=.8, πs=1,E-CAP 150uF 450V 20% 18x40 105deg CXW

2 ELKO ALU 105 150µ,8B-05-680089-2,Bac=4140,Tec=2000 SN 9.66 19,3 fit
Cap. Al-electrolytic non-solid electrolyte,Tbmax=105,Qks=LL
Bacm=4CFCU,Zfr=100%,Tref=40,Tb=50,Ar=5,A=.87,Ea1=.5,Ea2=.95, πt=1.93
Vuv=.8, πs=1,πq=1,E-CAP 150uF 35V 20% 8x11.5 105deg. YXG

1 MMSZ5232B,92-05-130148-X,Bac=2230,Geh=SODSOD-123/2 SN 1.58 1,6 fit
Zener diode,Zfr=100%,Tref=40,Tj=50,Ar=1,A=1,Ea1=.4, πt=1.58,ZENER 500mW
5.6V SOD-123 MMSZ5232BT1G / MMSZ5232B-7-F

1 US1M,92-05-130114-X,Bac=2510,Tec=0002,Geh=PL/2 SN 2.93 2,9 fit
Rectifier diode power,Zfr=100%,Tref=70,Tj=80,Ar=2,A=1,Ea1=.4, πt=1.47
Diode-REC 1kV 1x1A US1 DO-214AC SMA

2 STTH15L06,92-05-030774-G,Bac=2510,Tec=0002 SN 2.93 5,9 fit
Geh=TO220/2,Rectifier diode power,Zfr=100%,Tref=70,Tj=80,Ar=2,A=1
Ea1=.4, πt=1.47,RECTIFIER 15A 600V STTH15L06 TO-220AC

2 STPS1H100A,92-05-008194-G,Bac=2530,Geh=SODSMA/2 SN 14.2 28,4 fit
Schottky diode power,Zfr=100%,Tref=85,Tj=95,Ar=10,A=1,Ea1=.4, πt=1.42
SCHOTTKY 1A 100V STPS1H100A SMA

1 S3M,92-05-103085-X,Bac=2510,Geh=SMT/2,Rectifier SN 2.93 2,9 fit
diode power,Zfr=100%,Tref=70,Tj=80,Ar=2,A=1,Ea1=.4, πt=1.47,RECTIFIER
3A 1kV S3M-E3/S3M SMC

1 MURS160T3,92-05-130036-X,Bac=2210,Tec=0002,Gec=SMT SN 1.52 1,5 fit
Universal diode,Zfr=100%,Tref=55,Tj=65,Ar=1,A=1,Ea1=.4, πt=1.52
RECTIFIER-1A 600V MURS160T3G SMB

7 MM3Z15VT1G,92-05-012242-6,Bac=2230,Tec=0002,Pin=2 SN 1.58 11,1 fit
Zener diode,Geh=SOD323,Rte=300,Tecq=SI,Rttq=300/175/*,El1q=15V
Zfr=100%,Tref=40,Tj=50,Ar=1,A=1,Ea1=.4, πt=1.58,ZENER-200mW 15V
MM3Z8V2T1G SOD-323

5 MBR0540T1,92-05-108053-X,Bac=2530,Tec=0001 SN 14.2 71,1 fit
Gec=SOD123,Schottky diode power,Rte=340,Umax=40,Tjmax=150,Rte=206
Zfr=100%,Tref=85,Tj=95,Ar=10,A=1,Ea1=.4, πt=1.42,Schottky Power
Rectifier 500mA MBR0540-MOTORO

17 BAV21WS,92-05-130055-X,Bac=2210,Geh=SOD323/2 SN 1.52 25,8 fit
Universal diode,Rte=650,Unen=200,Inen=0.25,Zfr=100%,Tref=55,Tj=65
Ar=1,A=1,Ea1=.4, πt=1.52,Small-Signal Diode BAV21WS-GS

1 BAT54KFILM,92-05-030236-G,Bac=2220,Geh=SOD523/2 SN 1.52 1,5 fit
Schottky diode,Zfr=100%,Tref=55,Tj=65,Ar=1,A=1,Ea1=.4, πt=1.52,SCHOTTKY
300mA 40V BATKFILM SOD523

2 BAS3010A-03W,92-05-030760-2,Bac=2220,Geh=SOD323/2 SN 1.52 3 fit
Schottky diode,Zfr=100%,Tref=55,Tj=65,Ar=1,A=1,Ea1=.4, πt=1.52,SCHOTTKY
1A 30V BAS3010A-03W SOD323

1 RES-120R-1-1206,71-05-541123-6,Bac=4230,Resistor SN 0.252 0,3 fit
metal film,Nmax=250,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 120 OHM 1% 1/4W 1206 PT 8x4MM

1 S8B-PHDSS,51-05-011176-J,Bac=5213,Tec=1000 SN 6 6 fit
Conn./socket ins. without el. load tin single cont. 8 pins,Vf=8
Tbmax=85,Umax=250,Imax=3,Zfr=100%,Tref=40,Tb=50,Ar=0.75,CONNECTOR
S8B-PHDSS

8 51-05-006186-4,Bac=5214,Tec=2000,Conn./socket ins. SN 3 24 fit
without el. load other mat. mult. cont. 6 pins,Vf=6,Zfr=100%,Tref=40
Tb=50,Ar=0.5,PIN HEADER 2559P06TD00

5 2543S06T00,51-05-011161-4,Bac=5213,Tec=1000 SN 4.5 22,5 fit
Conn./socket ins. without el. load tin single cont. 6 pins,Vf=6
Tbmax=105,Imax=3,Umax=250,Zfr=100%,Tref=40,Tb=50,Ar=0.75,CONNECTOR
RECEPTABLE 2543S06T00 LEOCO

1 MH160-016M04,51-05-011178-Z,Bac=5126,Screw,Vf=4 SN 2 2 fit
Tbmax=105,Imax=57,Umax=300,Zfr=100%,Tref=40,Tb=50,Ar=0.5,TERMINAL
BLOCK MH160-016M04 DECA

1 MB910-952M03,51-05-011177-Z,Bac=5126,Screw,Vf=3 SN 1.5 1,5 fit
Tbmax=105,Imax=25,Umax=300,Zfr=100%,Tref=40,Tb=50,Ar=0.5,TERMINAL
BLOCK MB910-952M03 DECA

1 MB910-635M02L,51-05-011179-Z,Bac=5126,Screw,Vf=2 SN 1 1 fit
Tbmax=105,Imax=30,Umax=300,Zfr=100%,Tref=40,Tb=50,Ar=0.5,TERMINAL
BLOCK MB910-635M02L DECA

1 B2B-EH-A,51-05-006216-J,Bac=5213,Tec=2000,Pin=2 SN 0.15 0,2 fit
Conn./socket ins. without el. load tin multiple cont. 2 pins,Vf=2
Tbmax=85,Bacm=5CONPC,Zfr=100%,Tref=40,Tb=50,Ar=0.08,Stiftleiste
2-polig verzinnt EH B2B-EH-A-JST

1 JG-10,51-05-011165-Z,Bac=5112,Soldering point SN 0.03 0 fit
machine,Zfr=100%,Tref=40,Tb=50,Ar=0.03,CONNECTOR HEADER JG-10 Lötöse

2 JH-8M3,51-05-009004-Z,Bac=5213,Tec=2000,Conn./socket SN 0.15 0,3 fit
ins. without el. load tin multiple cont. 2 pins,Vf=2,Tbmax=85
Zfr=100%,Tref=40,Tb=50,Ar=0.08,TERMINAL BLOCK JH-8M3

5 61-1900-42,51-05-011157-Z,Bac=5112,Soldering point SN 0.03 0,1 fit
machine,Zfr=100%,Tref=40,Tb=50,Ar=0.03,CONNECTOR HEADER 61-1900-42
Flachsteckzunge 4.8mm lötbar Osterrath

3 FERRITE BEAD 600R,35-05-140006-X,Bac=4320,Tec=1000 SN 1.73 5,2 fit
Gec=SMT,Inductor for EMC applications <=3A,Tbmax=125,Zfr=100%,Tref=60
Tb=70,Ar=1.5,A=.996,Ea1=.06,Ea2=1.13, πt=1.15,FERRITE BEAD (SMD) 600R
1A

4 FERRITE BEAD 50R,35-05-140007-X,Bac=4320,Tec=1000 SN 1.73 6,9 fit
Gec=SMT,Inductor for EMC applications <=3A,Tbmax=125,Zfr=100%,Tref=60
Tb=70,Ar=1.5,A=.996,Ea1=.06,Ea2=1.13, πt=1.15,FERRITE BEAD (SMD) 50R 3A

1 CM5441Z616B-10,3B-05-040191-H,Bac=4320,Tec=2000 SN 5 5 fit
Gec=DRAHT,Inductor for EMC applications > 3A,Tbmax=125,Imax=75
Zfr=100%,Tref=85,Tb=95,Ar=3,A=.996,Ea1=.06,Ea2=1.13, πt=1.67,COMMON
MODE CHOKE 75A CM5441Z616B-10 Laird

4 CAP-Y1-2N2-500V,8A-05-E01003-X,Bac=4130,Tec=1000 SN 1.49 6 fit
Capacitor ceramic LDC,Tbmax=125,Umax=500,Zfr=100%,Tref=40,Tb=50,Ar=1
A=1,Ea1=.35, πt=1.49,Vuv=.5,CAP Y1 2.2nF 10% 500V 18*6 125degr. WKP

4 CAP-Y1-1N-500V,8A-05-E81002-X,Bac=4130,Tec=1000 SN 1.49 6 fit
Capacitor ceramic LDC,Tbmax=125,Umax=500,Zfr=100%,Tref=40,Tb=50,Ar=1
A=1,Ea1=.35, πt=1.49,Vuv=.5,CAP Y1 1nF 10% 500V 18*6 125degr. WKP

5 X2-CAP-1UF5-305V,89-05-Z80050-Z,Bac=4110,Tec=3200 SN 1.25 6,2 fit
Gec=DRAHT,Capacitor metallized foil MKP,Tbmax=110,Umax=305,Zfr=100%
Tref=40,Tb=50,Ar=0.7,A=.999,Ea1=.5,Ea2=1.59, πt=1.78,Vuv=.5,X2-CAP
1.5uF 305V 20% 26.5x11.0x20.0 P22.5 C42

1 470NF-50V-0805-X7R,81-05-772245-X,Bac=4130,Tec=2000 SN 2.99 3 fit
Gec=SMT,Capacitor ceramic MDC,Tbmax=125,Umax=50,Zfr=100%,Tref=40
Tb=50,Ar=2,A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 470nF 50V 10% 0805 X7R

1 330PF-50V-0805-NPO,81-05-762067-X,Bac=4130,Tec=1000 SN 1.49 1,5 fit
Gec=SMT,Capacitor ceramic LDC,Tbmax=125,Umax=50,Zfr=100%,Tref=40
Tb=50,Ar=1,A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 330pF 50V 5% 0805 NPO

1	CAP-220P-1000V-NPO,81-05-G73009-1,Bac=4130,Tec=1000 SN 1.49 Capacitor ceramic LDC,Tbmax=125,Umax=1000,Zfr=100%,Tref=40,Tb=50,Ar=1 A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 220pF 1000V 10% 1206 NP0	1,5 fit
1	CAP-220P-50V-NPO-5,81-05-772063-1,Bac=4130,Tec=1000 SN 1.49 Capacitor ceramic LDC,Tbmax=85,Umax=50,Zfr=100%,Tref=40,Tb=50,Ar=1 A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP CAP 220pF 5% 50V NPO 0805	1,5 fit
2	CAP-220N25VX7R805,81-05-572241-1,Bac=4130,Tec=2000 SN 2.99 Capacitor ceramic MDC,Tbmax=85,Umax=25,Zfr=100%,Tref=40,Tb=50,Ar=2 A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 220nF 25V 10% 0805 X7R	6 fit
6	100PF-50V-0805-NPO,81-05-762055-1,Bac=4130,Tec=1000 SN 1.49 Gec=SMT,Capacitor ceramic LDC,Tbmax=125,Umax=50,Zfr=100%,Tref=40 Tb=50,Ar=1,A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 100pF 50V 5% 0805 NPO	9 fit
20	CAP-100N-50V-10-X7,81-05-772237-1,Bac=4130,Tec=2000 SN 2.99 Capacitor ceramic MDC,Tbmax=85,Umax=50,Zfr=100%,Tref=40,Tb=50,Ar=2 A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP CAP 100nF 10% 50V X7R 0805 PT 8*4MM	59,8 fit
1	CAP-47N-630V-X7R,81-05-M74289-A,Bac=4130,Tec=2000 SN 2.99 Capacitor ceramic MDC,Tbmax=85,Umax=630,Zfr=100%,Tref=40,Tb=50,Ar=2 A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 47nF 630V 10% 1210 X7R GRM32	3 fit
1	CAP-47N-50V-X7R,81-05-772233-1,Bac=4130,Tec=2000 SN 2.99 Capacitor ceramic MDC,Tbmax=85,Umax=50,Zfr=100%,Tref=40,Tb=50,Ar=2 A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP CAP 47nF 10% 50V X7R 0805 PT 8*4MM	3 fit
3	22PF-50V-0805-NPO,81-05-762039-X,Bac=4130,Tec=1000 SN 1.49 Gec=SMT,Capacitor ceramic LDC,Tbmax=125,Umax=50,Zfr=100%,Tref=40 Tb=50,Ar=1,A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 22pF 50V 5% 0805 NPO	4,5 fit
1	CAP-22P-50V-NPO,81-05-761039-1,Bac=4130,Tec=1000 SN 1.49 Gec=SMT,Capacitor ceramic LDC,Umax=50,Zfr=100%,Tref=40,Tb=50,Ar=1,A=1 Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 22pF 50V 5% 0603 NP0	1,5 fit
1	CAP-22N-50V-10-X7R,81-05-772229-1,Bac=4130,Tec=2000 SN 2.99 Capacitor ceramic MDC,Tbmax=85,Umax=50,Zfr=100%,Tref=40,Tb=50,Ar=2 A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP CAP 22nF 10% 50V X7R 0805 PT 8*4MM	3 fit
1	15NF-50V-0805-X7R,81-05-772227-1,Bac=4130,Tec=2000 SN 2.99 Gec=SMT,Capacitor ceramic MDC,Tbmax=125,Umax=50,Zfr=100%,Tref=40 Tb=50,Ar=2,A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 15nF 50V 10% 0805 X7R	3 fit
2	10UF-63V-1210-X7R,81-05-874201-A,Bac=4130,Tec=2000 SN 2.99 Gec=SMT,Capacitor ceramic MDC,Tbmax=125,Umax=63,Zfr=100%,Tref=40 Tb=50,Ar=2,A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 10uF 63V 10% 1210 X7R	6 fit
2	10NF-630V-1206-X7R,81-05-M73273-N,Bac=4130,Tec=2000 SN 2.99 Gec=SMT,Capacitor ceramic MDC,Tbmax=125,Umax=630,Zfr=100%,Tref=40 Tb=50,Ar=2,A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 10nF 630V 10% 1206 X7R	6 fit
24	10NF-630V-1206-NPO,81-05-M63073-G,Bac=4130,Tec=1000 SN 1.49 Gec=SMT,Capacitor ceramic LDC,Tbmax=125,Umax=630,Zfr=100%,Tref=40 Tb=50,Ar=1,A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 10nF 630V 5% 1206 NPO	35,9 fit
8	CAP-10N-50V-0805,81-05-772225-1,Bac=4130,Tec=1000 SN 1.49 Gec=SMT,Capacitor ceramic LDC,Tbmax=85,Umax=50,Zfr=100%,Tref=40,Tb=50 Ar=1,A=1,Ea1=.35, πt=1.49,Vuv=.5,CAP SMD KER 10nF 50V C0G 0805 10%	12 fit
11	4.7UF-50V-1206-X7R,81-05-773253-X,Bac=4130,Tec=2000 SN 2.99 Gec=SMT,Capacitor ceramic MDC,Tbmax=125,Umax=50,Zfr=100%,Tref=40 Tb=50,Ar=2,A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 4.7uF 50V 10% 1206 X7R	32,9 fit
1	CAP-4N7-50V-X7R-10,81-05-772221-1,Bac=4130,Tec=2000 SN 2.99 Capacitor ceramic MDC,Tbmax=85,Umax=50,Zfr=100%,Tref=40,Tb=50,Ar=2 A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP CAP 4.7nF 10% 50V X7R 0805 PT 8*4MM	3 fit
1	3.3NF-50V-0805-X7R,81-05-772219-1,Bac=4130,Tec=2000 SN 2.99 Gec=SMT,Capacitor ceramic MDC,Tbmax=125,Umax=50,Zfr=100%,Tref=40 Tb=50,Ar=2,A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 3.3nF 50V 10% 0805 X7R	3 fit
5	CAP 2µ2 25V 0805,81-05-572253-X,Bac=4130,Tec=2000 SN 2.99 Gec=SMT,Capacitor ceramic MDC,Tbmax=155,Umax=25,Zfr=100%,Tref=40 Tb=50,Ar=2,A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 2.2uF 25V 10% 0805 X7R	14,9 fit
1	CAP-2N2-1000V-1206,81-05-G73217-1,Bac=4130,Tec=2000 SN 2.99 Capacitor ceramic MDC,Tbmax=85,Umax=1000,Zfr=100%,Tref=40,Tb=50,Ar=2 A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP CAP 2.2nF 10% 1000V X7R 1206 PT 8*4MM	3 fit
2	CAP-2N2-50V-X7R,81-05-772217-1,Bac=4130,Tec=2000 SN 2.99 Capacitor ceramic MDC,Tbmax=85,Umax=50,Zfr=100%,Tref=40,Tb=50,Ar=2 A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP CAP 2.2nF 20% 50V X7R 0805 PT 8*4MM	6 fit
1	CAP-1U-50V-X7R1206,81-05-773249-1,Bac=4130,Tec=2000 SN 2.99 Capacitor ceramic MDC,Tbmax=85,Umax=50,Zfr=100%,Tref=40,Tb=50,Ar=2 A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP CAP 1uF 10% 50V X7R 1206	3 fit
2	1UF-25V-0805-X7R,81-05-572249-X,Bac=4130,Tec=2000 SN 2.99 Gec=SMT,Capacitor ceramic MDC,Tbmax=125,Umax=25,Zfr=100%,Tref=40 Tb=50,Ar=2,A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP-CAP 1uF 25V 10% 0805 X7R	6 fit

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   12 CAP-1U-16V-10-X7R,81-05-472249-1,Bac=4130,Tec=2000   SN  2.99                  35,9 fit
      Capacitor ceramic MDC,Tbmax=85,Umax=16,Zfr=100%,Tref=40,Tb=50,Ar=2
      A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP CAP 1uF 10% 16V X7R 0805 PT 8*4MM

    2 1NF-630V-1206-NPO,81-05-M63049-X,Bac=4130,Tec=1000   SN  1.49                   3   fit
      Gec=SMT,Capacitor ceramic LDC,Tbmax=125,Umax=630,Zfr=100%,Tref=40
      Tb=50,Ar=1,A=1,Ea1=.35,  πt=1.49,Vuv=.5,CHIP-CAP 1nF 630V 10% 1206
      COG/NPO

    5 CAP-1N-50V-X7R,81-05-762079-1,Bac=4130,Tec=2000      SN  2.99                  14,9 fit
      Capacitor ceramic MDC,Tbmax=85,Umax=50,Zfr=100%,Tref=40,Tb=50,Ar=2
      A=1,Ea1=.35, πt=1.49,Vuv=.5,CHIP CAP 1nF 5% 50V X7R 0805 PT

    1 GSIB2560/D25XB60,92-05-107999-X,Bac=2520             SN  14.2                  14,2 fit
      Geh=SONDER/4,Rectifier bridge,Zfr=100%,Tref=85,Tj=95,Ar=10,A=1,Ea1=.4
       πt=1.42,BRIDGE-25A 600V GSIB2560-E3/D25XB60-7000

    2 KFE-3.6-3-ET,46-05-020348-Q,Bac=5112,Soldering point SN  0.03                   0,1 fit
      machine,Zfr=100%,Tref=40,Tb=50,Ar=0.03,STANDOFF KFE-3.6-3-ET

    2 15-05-600021-1,15-05-600021-1,Bac=4320,Tec=2000      SN  5                     10   fit
      Gec=DRAHT,Inductor for EMC applications > 3A,Tbmax=130,Imax=9
      Zfr=100%,Tref=85,Tb=95,Ar=3,A=.996,Ea1=.06,Ea2=1.13,   πt=1.67,COMMON
      MODE CHOKE 2x1.5mH 9A

    1 15-05-600019-1,15-05-600019-1,Bac=4330,Geh=DRAHT/18  SN  16.7                  16,7 fit
      Inductor/transformer <16 kVA,Tbmax=130,Zfr=100%,Tref=85,Tb=95,Ar=10
      A=.996,Ea1=.06,Ea2=1.13,  πt=1.67,XFRM-MAIN 960VA 90kHz xW UF
      30.2/30.3/29.6

    1 15-05-600018-1,15-05-600018-1,Bac=4310,Tec=2000      SN  5.59                   5,6 fit
      Geh=DRAHT/2,Inductor/small transformer High frequency > 25 kHz
      Tbmax=130,Imax=9.4,Zfr=100%,Tref=55,Tb=65,Ar=5,A=.996,Ea1=.06
      Ea2=1.13, πt=1.12,CHOKE RES 22uH 9.4A XW VER UU25.0/20.0/13.0

    2 15-05-600017-1,15-05-600017-1,Bac=4310,Tec=2000      SN  5.59                  11,2 fit
      Geh=DRAHT/8,Inductor/small transformer High frequency > 25 kHz
      Tbmax=130,Imax=3.3,Zfr=100%,Tref=55,Tb=65,Ar=5,A=.996,Ea1=.06
      Ea2=1.13, πt=1.12,PFC CHOKE 190uH 3.3A 1W ver UU26.0/22.0/16.0

    1 15-05-600016-1,15-05-600016-1,Bac=4330,Geh=DRAHT/6   SN  16.7                  16,7 fit
      Inductor/transformer <16 kVA,Tbmax=120,Zfr=100%,Tref=85,Tb=95,Ar=10
      A=.996,Ea1=.06,Ea2=1.13,  πt=1.67,XFMR 5.8mH 85-440V / 13V EF16

    2 IND 10µH SMD,3B-05-040015-5,Bac=4310,Tec=2000        SN  5.59                  11,2 fit
      Geh=SMT/2,Inductor/small transformer High frequency > 25 kHz
      Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=5,A=.996,Ea1=.06,Ea2=1.13,    πt=1.12
      IND(SMD) 10uH 10% LB2012T100KR

    1 RES-1K5-1-0805,71-05-341247-1,Bac=4230,Gec=SMT       SN  0.252                  0,3 fit
      Resistor metal film,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873
      Ea1=.16,Ea2=.44, πt=1.26,CHIP RES 1.5K 1% 1/8W 0805 PT 8x4MM

1 227 Bac=5112,Soldering point machine,Ar=0.03,Tref=40     SN  0.03                  36,8 fit
      Tb=50
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