

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
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**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<sup>9</sup> 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	FMNT720, 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 FMNT591-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	FMNT619, 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, FMNT619 npn-Transistor 2A 50V	SN 4.49		9 fit
1	CT-6EX, 77-05-880064-L, Bac=4270, Gec=DRAHT, Resistor variable, Tbm=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, Tbm=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 metal film,Nmax=125,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, $\pi t=1.26$ ,CHIP RES 680K 1% 1/8W 0805 PT 8x4MM	0,8 fit
2	RES-470R-1-0805,71-05-341191-1,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, $\pi t=1.26$ ,CHIP RES 470 OHM 1% 1/8W 0805 PT 8x4MM	0,5 fit
2	RES-470K-0125-0805,71-05-341533-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=100,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, $\pi t=1.26$ ,CHIP-RES 470k 0.125W 1% 0805 100ppm	0,5 fit
1	RES-330R-1-0805,71-05-341172-1,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, $\pi t=1.26$ ,CHIP RES 330 OHM 1% 1/8W 0805 PT 8x4MM	0,3 fit
2	RES-330K-1-0805,71-05-341514-1,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, $\pi t=1.26$ ,CHIP RES 330K 1% 1/8W 0805 PT 8x4MM	0,5 fit
1	RES-270R-1-0805,71-05-341162-1,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, $\pi t=1.26$ ,CHIP RES 270 OHM 1% 1/8W 0805 PT 8x4MM	0,3 fit
2	RES-270K-1-0805,71-05-341504-1,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, $\pi t=1.26$ ,CHIP RES 270K 1% 1/8W 0805 PT 8x4MM	0,5 fit
2	RES-220R-1-0805,71-05-341151-1,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, $\pi t=1.26$ ,CHIP RES 220 OHM 1% 1/8W 0805 PT 8x4MM	0,5 fit
4	RES-220K-1-0805,71-05-341493-1,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, $\pi t=1.26$ ,CHIP RES 220K 1% 1/8W 0805 PT 8x4MM	1 fit
3	RES-150K-1-0805,71-05-341475-1,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, $\pi t=1.26$ ,CHIP RES 150K 1% 1/8W 0805 PT 8x4MM	0,8 fit
1	RES-120K-0125-0805,71-05-341465-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=100,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, $\pi t=1.26$ ,CHIP-RES 120k 0.125W 1% 0805 100ppm	0,3 fit
4	RES-100R-1-0805,71-05-341115-1,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, $\pi t=1.26$ ,CHIP RES 100 OHM 1% 1/8W 0805 PT 8x4MM	1 fit
3	RES-100K-1-1206,71-05-541457-1,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, $\pi t=1.26$ ,CHIP RES 100K 1% 1/4W 1206 PT 8x4MM	0,8 fit
6	RES-100K-1-0805,71-05-341457-1,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, $\pi t=1.26$ ,CHIP RES 100K 1% 1/8W 0805 PT 8x4MM	1,5 fit
1	RES-68K-0125-0805,71-05-341438-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=100,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, $\pi t=1.26$ ,CHIP-RES 68k 0.125W 1% 0805 100ppm	0,3 fit
2	RES-56K0-1-0805,71-05-341428-1,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, $\pi t=1.26$ ,CHIP RES 56K 1% 1/8W 0805 PT 8x4MM	0,5 fit
3	RES-47R-0125-0805,71-05-342077-1,Bac=4230,Resistor SN 0.252 metal film,Nmax=100,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, $\pi t=1.26$ ,CHIP-RES 47R 0.125W 1% 0805 100ppm	0,8 fit
1	RES-47K0-1-0805,71-05-341419-1,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, $\pi t=1.26$ ,CHIP RES 47K 1% 1/8W 0805 PT 8x4MM	0,3 fit
7	RES-33K0-1-0805,71-05-341400-1,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, $\pi t=1.26$ ,CHIP RES 33K 1% 1/8W 0805 PT 8x4MM	1,8 fit
3	RES-27K0-1-0805,71-05-341390-1,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, $\pi t=1.26$ ,CHIP RES 27K 1% 1/8W 0805 PT 8x4MM	0,8 fit
1	WW-RES-22R-5W,75-05-E71011-9,Bac=4260,Gec=DRAHT SN 6.32 Resistor wire-wound,Tbmax=155,Zfr=100%,Tref=85,Tb=95,Ar=5,A=.873 Ea1=.16,Ea2=.44, $\pi t=1.26$ ,WW Res 22R 5W	6,3 fit
1	RES-22R0-1-0805,71-05-342037-1,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, $\pi t=1.26$ ,CHIP RES 22 OHM 1% 1/8W 0805 PT 8x4MM	0,3 fit
3	RES-22K0-1-0805,71-05-341379-1,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, $\pi t=1.26$ ,CHIP RES 22K 1% 1/8W 0805 PT 8x4MM	0,8 fit

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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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, $\pi t=1.26$ ,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 metal film,Nmax=250,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Ea1=.16,Ea2=.44, $\pi_t=1.26$ ,CHIP RES 1K 1% 1/4W 1206 PT 8x4MM	0,8 fit
12	RES-1K00-1-0805,71-05-341229-1,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, $\pi_t=1.26$ ,CHIP RES 1K 1% 1/8W 0805 PT 8x4MM	3 fit
3	RES-OR0005-1-2512,71-05-B40502-A,Bac=4260,Gec=SMT SN 6.32 Resistor wire-wound,Tbmax=170,Zfr=100%,Tref=85,Tb=95,Ar=5,A=.873 Ea1=.16,Ea2=.44, $\pi_t=1.26$ ,CHIP-RES OR0005 2W 1% 2512 50ppm CSNL	19 fit
2	RES-OR00-1-1206,71-05-000005-1,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, $\pi_t=1.26$ ,CHIP RES 0 OHM 1% 1/8W 1206 PT 8x4MM	0,5 fit
7	RES-OR00-1-0805,71-05-000004-1,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, $\pi_t=1.26$ ,CHIP RES 0 OHM 1% 1/8W 0805 PT 8x4MM	1,8 fit
1	835NL-1A--C12VDC,54-AE-000006-1,Bac=5321,Tec=2120 SN 5.03 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, $\pi_t=1.01$ Labv=3,Klv=R,Acddcv=A, $\pi_{1a}=1$ ,RELAY 12A !"VDC 835NL-1A--C12VDC	5 fit
1	RELAY G5V-1 12V 1A,54-05-101012-X,Bac=5321,Tec=3110 SN 6.11 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, $\pi_t=1.22$ ,Labv=3 Klv=R,Acddcv=A, $\pi_{1a}=1$ ,RELAY G5V-1 12V 1A	6,1 fit
1	PTC 470 OHM 105DEG,76-05-AA1001-X,Bac=4520,Gec=SMT SN 5 PTC thermistor,Tbmax=120,Zfr=100%,Tref=40,Tb=50,Ar=5,PTC (SMD0805) -470r 105deg TPM2S471P105R	5 fit
1	TPM2S471P095R,76-05-AA1002-X,Bac=4520,Gec=SMT,PTC SN 5 thermistor,Tbmax=120,Zfr=100%,Tref=40,Tb=50,Ar=5,PTC (SMD0805) -470r 95deg TPM2S471P095R	5 fit
1	RES-12R0-1-0805,71-05-342009-1,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, $\pi_t=1.26$ ,CHIP RES 12 OHM 1% 1/8W 0805 PT 8x4MM	0,3 fit
1	NCP21XQ102J03RA,76-05-U72033-J,Bac=4270,Gec=SMT SN 37.8 Resistor variable,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=30,A=.873 Ea1=.16,Ea2=.44, $\pi_t=1.26$ ,NTC (SMD0805) -1K 5% 25deg	37,8 fit
1	TLPH5600 RD,97-05-030213-7,Bac=3211,LED radial/SMT SN 15.8/42 Tumax=100,Rte=400,Ntyp=75,Imax=0.03,Zfr=100%,Tj=80,Ar=1.5/4,Tref=45 A=1,Ea1=.65, $\pi_t=10.51$ ,Viv=.5,LED TLPH5600 RD	28,9 fit
1	TLPG5600 GN,97-05-030214-7,Bac=3211,LED radial/SMT SN 15.8/42 Tumax=100,Rte=400,Ntyp=75,Imax=0.03,Zfr=100%,Tj=80,Ar=1.5/4,Tref=45 A=1,Ea1=.65, $\pi_t=10.51$ ,Viv=.5,LED TLPG5600 GN	28,9 fit
3	LM431BIM3,96-05-100265-X,Bac=1620,Tec=1002,Geh=SO/8 SN 4.48 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, $\pi_t=1.49$ Adjustable Precision Zener Shunt Regulator LM431BIM3-NSC	13,4 fit
1	L6699DTR,96-05-031242-G,Bac=1640,Tec=1002,Geh=SO/16 SN 29.9 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, $\pi_t=1.5$ IC-L6699DTR SO-16N	29,9 fit
4	FOD817B,96-05-130085-X,Bac=3310,Tec=1002,Geh=DIP/6 SN 25.3 Optocoupler with bipolar output,Rte=500,Zfr=100%,Tref=55,Tj=65,Ar=15 A=1,Ea1=.5, $\pi_t=1.69$ ,OPTO-KOPPLER FOD817B	101,3 fit
1	LM2904D,96-05-100584-X,Bac=1610,Tec=1002,Geh=SO/8,IC SN 4.49 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, $\pi_t=1.5$ ,Vuv=.7, $\pi_s=1$ ,2X OPERATIONSVERSTAERKER 2mA LM2904M-NSC	4,5 fit
2	LM2902D,96-05-100324-X,Bac=1610,Tec=1002,Geh=SO/14 SN 8.98 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, $\pi_t=1.5$ ,Vuv=.7, $\pi_s=1$ ,4X OPERATIONSVERSTAERKER LM2902D-VALVO LM2902M-NSC	18 fit
4	ZXGD3101N8,96-05-030987-Z,Bac=1640,Tec=4002 SN 15 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, $\pi_t=1.5$ ,IC ZXGD3101N8 SO-8 Sync. Ctrl. Diodes Inc.	59,9 fit
1	TEA1721A,96-05-031136-1,Bac=1632,Tec=2002,Geh=SO/7 SN 76.9 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, $\pi_t=1.54$ ,IC TEA1721A SO-7 Off-line PWM Switch NXP	76,9 fit
1	NCP1631DR2G,96-05-031246-6,Bac=1640,Tec=4002 SN 6.96 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, $\pi_t=1.5$ ,IC-NCP1631DR2G SO-16 Interleaved PFC CTRL. ONSEMI	7 fit<<

1	INA282,96-05-002119-4,Bac=1610,Tec=1002,Geh=SO/8,IC SN 8.98 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, $\pi t=1.5$ ,Vuv=.7, $\pi s=1$ IC-INA282AID SO-8	9	fit
1	FUSE 10A,55-05-000051-E,Bac=5630,Melting fuse SN 25 Zfr=100%,Tref=40,Tb=50,Ar=25,BLADE FUSE 10A with CLIP 3522_2x	25	fit
2	RRR030P03,95-05-030314-Z,Bac=2110,Tec=3000 SN 7.48 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, $\pi t=1.5$ ,Vuv=.5,P MOSFET 3A 30V RRR030P03 TSMT3	15	fit
2	TK31N60W,95-05-030317-Z,Bac=2140,Tec=3002 SN 92.6 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, $\pi t=1.54$ ,Vuv=.5,MOSFET-N 600V 30A TK31N60W TO247	185,3	fit
2	IPP60R074C6,95-05-030313-2,Bac=2140,Tec=3002 SN 92.6 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, $\pi t=1.54$ ,Vuv=.5,MOSFET 151A 650V IPP60R074C6 TO220	185,3	fit
4	IPB011N04NG,95-05-030315-2,Bac=2140,Tec=3002 SN 92.6 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, $\pi t=1.54$ ,Vuv=.5,MOSFET 180A 40V IPB011N04NG D2PAK-7	370,5	fit
5	2N7002P,95-05-030279-1,Bac=2110,Tec=3002 SN 7.48 Geh=SOT23/3,Transistor small signal MOSFET,Fuq=HYB,Tecq=NFET Rttq=625/150/*,E11q=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 $\pi t=1.5$ ,Vuv=.5,N-MOSFET 360mA 60V SOT23	37,4	fit
6	FERRITE BEAD,35-05-100001-X,Bac=4320,Inductor for SN 1.73/3.45 EMC applications,Tbmax=125,Zfr=100%,Tref=60,Tb=70,Ar=1.5/3,A=.996 Ea1=.06,Ea2=1.13, $\pi t=1.15$ ,Ferrite Bead PX03051A-BD3.5/1.3/3.3-4S2	15,5	fit
4	E-CAP 1800UF 35V,8B-05-681053-X,Bac=4140,Tec=2000 SN 9.66 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, $\pi t=1.93$ Vuv=.8, $\pi s=1$ ,E-CAP 1800uF 35V 20% 12.5x35 105deg	38,6	fit
5	PCR1VVF221MBALL35,8B-05-880133-E,Bac=4140,Tec=1000 SN 3.21 Gec=DRAHT,Cap. Al-electrolytic solid electrolyte,Tbmax=105,Umax=35 Zfr=100%,Tref=40,Tb=50,Ar=3,A=.4,Ea1=.14, $\pi t=1.07$ ,Vuv=.8, $\pi s=1$ ,E-CAP 220uF 35V 20% 8x11.5 105deg Polymer	16	fit
4	450CXW150M,8B-05-U80092-6,Bac=4140,Tec=2000 SN 9.66 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, $\pi t=1.93$ Vuv=.8, $\pi s=1$ ,E-CAP 150uF 450V 20% 18x40 105deg CXW	38,6	fit
2	ELKO ALU 105 150 $\mu$ ,8B-05-680089-2,Bac=4140,Tec=2000 SN 9.66 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, $\pi t=1.93$ Vuv=.8, $\pi s=1$ , $\pi q=1$ ,E-CAP 150uF 35V 20% 8x11.5 105deg. YXG	19,3	fit
1	MMSZ5232B,92-05-130148-X,Bac=2230,Geh=SODSOD-123/2 SN 1.58 Zener diode,Zfr=100%,Tref=40,Tj=50,Ar=1,A=1,Ea1=.4, $\pi t=1.58$ ,ZENER 500mW 5.6V SOD-123 MMSZ5232BT1G / MMSZ5232B-7-F	1,6	fit
1	US1M,92-05-130114-X,Bac=2510,Tec=0002,Geh=PL/2 SN 2.93 Rectifier diode power,Zfr=100%,Tref=70,Tj=80,Ar=2,A=1,Ea1=.4, $\pi t=1.47$ Diode-REC 1kV 1x1A US1 DO-214AC SMA	2,9	fit
2	STTH15L06,92-05-030774-G,Bac=2510,Tec=0002 SN 2.93 Geh=TO220/2,Rectifier diode power,Zfr=100%,Tref=70,Tj=80,Ar=2,A=1 Ea1=.4, $\pi t=1.47$ ,RECTIFIER 15A 600V STTH15L06 TO-220AC	5,9	fit
2	STPS1H100A,92-05-008194-G,Bac=2530,Geh=SODSMA/2 SN 14.2 Schottky diode power,Zfr=100%,Tref=85,Tj=95,Ar=10,A=1,Ea1=.4, $\pi t=1.42$ SCHOTTKY 1A 100V STPS1H100A SMA	28,4	fit
1	S3M,92-05-103085-X,Bac=2510,Geh=SMT/2,Rectifier SN 2.93 diode power,Zfr=100%,Tref=70,Tj=80,Ar=2,A=1,Ea1=.4, $\pi t=1.47$ ,RECTIFIER 3A 1kV S3M-E3/S3M SMC	2,9	fit
1	MURS160T3,92-05-130036-X,Bac=2210,Tec=0002,Gec=SMT SN 1.52 Universal diode,Zfr=100%,Tref=55,Tj=65,Ar=1,A=1,Ea1=.4, $\pi t=1.52$ RECTIFIER-1A 600V MURS160T3G SMB	1,5	fit
7	MM3Z15VT1G,92-05-012242-6,Bac=2230,Tec=0002,Pin=2 SN 1.58 Zener diode,Geh=SOD323,Rte=300,Tecq=SI,Rttq=300/175/*,E11q=15V Zfr=100%,Tref=40,Tj=50,Ar=1,A=1,Ea1=.4, $\pi t=1.58$ ,ZENER-200mW 15V MM3Z8V2T1G SOD-323	11,1	fit
5	MBR0540T1,92-05-108053-X,Bac=2530,Tec=0001 SN 14.2 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, $\pi t=1.42$ ,Schottky Power Rectifier 500mA MBR0540-MOTORO	71,1	fit

17	BAV21WS, 92-05-130055-X, Bac=2210, Geh=SOD323/2 Universal diode, Rte=650, Unen=200, Inen=0.25, Zfr=100%, Tref=55, Tj=65 Ar=1, A=1, Ea1=.4, $\pi t=1.52$ , Small-Signal Diode BAV21WS-GS	SN 1.52	25,8 fit
1	BAT54KFILM, 92-05-030236-G, Bac=2220, Geh=SOD523/2 Schottky diode, Zfr=100%, Tref=55, Tj=65, Ar=1, A=1, Ea1=.4, $\pi t=1.52$ , SCHOTTKY 300mA 40V BATKFILM SOD523	SN 1.52	1,5 fit
2	BAS3010A-03W, 92-05-030760-2, Bac=2220, Geh=SOD323/2 Schottky diode, Zfr=100%, Tref=55, Tj=65, Ar=1, A=1, Ea1=.4, $\pi t=1.52$ , SCHOTTKY 1A 30V BAS3010A-03W SOD323	SN 1.52	3 fit
1	RES-120R-1-1206, 71-05-541123-6, Bac=4230, Resistor metal film, Nmax=250, Tbm=125, Zfr=100%, Tref=55, Tb=65, Ar=0.2, A=.873 Ea1=.16, Ea2=.44, $\pi t=1.26$ , CHIP RES 120 OHM 1% 1/4W 1206 PT 8x4MM	SN 0.252	0,3 fit
1	S8B-PHDSS, 51-05-011176-J, Bac=5213, Tec=1000 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	SN 6	6 fit
8	51-05-006186-4, Bac=5214, Tec=2000, Conn./socket ins. without el. load other mat. mult. cont. 6 pins, Vf=6, Zfr=100%, Tref=40 Tb=50, Ar=0.5, PIN HEADER 2559P06TD00	SN 3	24 fit
5	2543S06T00, 51-05-011161-4, Bac=5213, Tec=1000 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	SN 4.5	22,5 fit
1	MH160-016M04, 51-05-011178-Z, Bac=5126, Screw, Vf=4 Tbmax=105, Imax=57, Umax=300, Zfr=100%, Tref=40, Tb=50, Ar=0.5, TERMINAL BLOCK MH160-016M04 DECA	SN 2	2 fit
1	MB910-952M03, 51-05-011177-Z, Bac=5126, Screw, Vf=3 Tbmax=105, Imax=25, Umax=300, Zfr=100%, Tref=40, Tb=50, Ar=0.5, TERMINAL BLOCK MB910-952M03 DECA	SN 1.5	1,5 fit
1	MB910-635M02L, 51-05-011179-Z, Bac=5126, Screw, Vf=2 Tbmax=105, Imax=30, Umax=300, Zfr=100%, Tref=40, Tb=50, Ar=0.5, TERMINAL BLOCK MB910-635M02L DECA	SN 1	1 fit
1	B2B-EH-A, 51-05-006216-J, Bac=5213, Tec=2000, Pin=2 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, Stifftleiste 2-polig verzinnt EH B2B-EH-A-JST	SN 0.15	0,2 fit
1	JG-10, 51-05-011165-Z, Bac=5112, Soldering point machine, Zfr=100%, Tref=40, Tb=50, Ar=0.03, CONNECTOR HEADER JG-10 Lötöse	SN 0.03	0 fit
2	JH-8M3, 51-05-009004-Z, Bac=5213, Tec=2000, Conn./socket 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	SN 0.15	0,3 fit
5	61-1900-42, 51-05-011157-Z, Bac=5112, Soldering point machine, Zfr=100%, Tref=40, Tb=50, Ar=0.03, CONNECTOR HEADER 61-1900-42 Flachsteckzunge 4.8mm lötfar Osterrath	SN 0.03	0,1 fit
3	FERRITE BEAD 600R, 35-05-140006-X, Bac=4320, Tec=1000 Gec=SMT, Inductor for EMC applications <=3A, Tbm=125, Zfr=100%, Tref=60 Tb=70, Ar=1.5, A=.996, Ea1=.06, Ea2=1.13, $\pi t=1.15$ , FERRITE BEAD (SMD) 600R 1A	SN 1.73	5,2 fit
4	FERRITE BEAD 50R, 35-05-140007-X, Bac=4320, Tec=1000 Gec=SMT, Inductor for EMC applications <=3A, Tbm=125, Zfr=100%, Tref=60 Tb=70, Ar=1.5, A=.996, Ea1=.06, Ea2=1.13, $\pi t=1.15$ , FERRITE BEAD (SMD) 50R 3A	SN 1.73	6,9 fit
1	CM5441Z616B-10, 3B-05-040191-H, Bac=4320, Tec=2000 Gec=DRAHT, Inductor for EMC applications > 3A, Tbm=125, Imax=75 Zfr=100%, Tref=85, Tb=95, Ar=3, A=.996, Ea1=.06, Ea2=1.13, $\pi t=1.67$ , COMMON MODE CHOKE 75A CM5441Z616B-10 Laird	SN 5	5 fit
4	CAP-Y1-2N2-500V, 8A-05-E01003-X, Bac=4130, Tec=1000 Capacitor ceramic LDC, Tbm=125, Umax=500, Zfr=100%, Tref=40, Tb=50, Ar=1 A=1, Ea1=.35, $\pi t=1.49$ , Vuv=.5, CAP Y1 2.2nF 10% 500V 18*6 125degr. WKP	SN 1.49	6 fit
4	CAP-Y1-1N-500V, 8A-05-E81002-X, Bac=4130, Tec=1000 Capacitor ceramic LDC, Tbm=125, Umax=500, Zfr=100%, Tref=40, Tb=50, Ar=1 A=1, Ea1=.35, $\pi t=1.49$ , Vuv=.5, CAP Y1 1nF 10% 500V 18*6 125degr. WKP	SN 1.49	6 fit
5	X2-CAP-1UF5-305V, 89-05-Z80050-Z, Bac=4110, Tec=3200 Gec=DRAHT, Capacitor metallized foil MKP, Tbm=110, Umax=305, Zfr=100% Tref=40, Tb=50, Ar=0.7, A=.999, Ea1=.5, Ea2=1.59, $\pi t=1.78$ , Vuv=.5, X2-CAP 1.5uF 305V 20% 26.5x11.0x20.0 P22.5 C42	SN 1.25	6,2 fit
1	470NF-50V-0805-X7R, 81-05-772245-X, Bac=4130, Tec=2000 Gec=SMT, Capacitor ceramic MDC, Tbm=125, Umax=50, Zfr=100%, Tref=40 Tb=50, Ar=2, A=1, Ea1=.35, $\pi t=1.49$ , Vuv=.5, CHIP-CAP 470nF 50V 10% 0805 X7R	SN 2.99	3 fit
1	330PF-50V-0805-NPO, 81-05-762067-X, Bac=4130, Tec=1000 Gec=SMT, Capacitor ceramic LDC, Tbm=125, Umax=50, Zfr=100%, Tref=40 Tb=50, Ar=1, A=1, Ea1=.35, $\pi t=1.49$ , Vuv=.5, CHIP-CAP 330pF 50V 5% 0805 NPO	SN 1.49	1,5 fit

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,Eal=.35, $\pi t=1.49$ ,Vuv=.5,CHIP-CAP 220pF 1000V 10% 1206 NPO	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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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 Eal=.35, $\pi t=1.49$ ,Vuv=.5,CHIP-CAP 22pF 50V 5% 0603 NPO	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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,Vuv=.5,CHIP-CAP 3.3nF 50V 10% 0805 X7R	3 fit
5	CAP 2 $\mu$ 2 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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,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,Eal=.35, $\pi t=1.49$ ,Vuv=.5,CHIP-CAP 1uF 25V 10% 0805 X7R	6 fit

12	CAP-1U-16V-10-X7R,81-05-472249-1,Bac=4130,Tec=2000 SN 2.99 Capacitor ceramic MDC,Tbmax=85,Umax=16,Zfr=100%,Tref=40,Tb=50,Ar=2 A=1,Eal=.35, $\pi t=1.49$ ,Vuv=.5,CHIP CAP 1uF 10% 16V X7R 0805 PT 8*4MM	35,9 fit
2	1NF-630V-1206-NPO,81-05-M63049-X,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,Eal=.35, $\pi t=1.49$ ,Vuv=.5,CHIP-CAP 1nF 630V 10% 1206 COG/NPO	3 fit
5	CAP-1N-50V-X7R,81-05-762079-1,Bac=4130,Tec=2000 SN 2.99 Capacitor ceramic MDC,Tbmax=85,Umax=50,Zfr=100%,Tref=40,Tb=50,Ar=2 A=1,Eal=.35, $\pi t=1.49$ ,Vuv=.5,CHIP CAP 1nF 5% 50V X7R 0805 PT	14,9 fit
1	GSIB2560/D25XB60,92-05-107999-X,Bac=2520 SN 14.2 Geh=SONDER/4,Rectifier bridge,Zfr=100%,Tref=85,Tj=95,Ar=10,A=1,Eal=.4 $\pi t=1.42$ ,BRIDGE-25A 600V GSIB2560-E3/D25XB60-7000	14,2 fit
2	KFE-3.6-3-ET,46-05-020348-Q,Bac=5112,Soldering point SN 0.03 machine,Zfr=100%,Tref=40,Tb=50,Ar=0.03,STANDOFF KFE-3.6-3-ET	0,1 fit
2	15-05-600021-1,15-05-600021-1,Bac=4320,Tec=2000 SN 5 Gec=DRAHT,Inductor for EMC applications > 3A,Tbmax=130,Imax=9 Zfr=100%,Tref=85,Tb=95,Ar=3,A=.996,Eal=.06,Ea2=1.13, $\pi t=1.67$ ,COMMON MODE CHOKE 2x1.5mH 9A	10 fit
1	15-05-600019-1,15-05-600019-1,Bac=4330,Geh=DRAHT/18 SN 16.7 Inductor/transformer <16 kVA,Tbmax=130,Zfr=100%,Tref=85,Tb=95,Ar=10 A=.996,Eal=.06,Ea2=1.13, $\pi t=1.67$ ,XFRM-MAIN 960VA 90kHz xW UF 30.2/30.3/29.6	16,7 fit
1	15-05-600018-1,15-05-600018-1,Bac=4310,Tec=2000 SN 5.59 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,Eal=.06 Ea2=1.13, $\pi t=1.12$ ,CHOKE RES 22uH 9.4A XW VER UU25.0/20.0/13.0	5,6 fit
2	15-05-600017-1,15-05-600017-1,Bac=4310,Tec=2000 SN 5.59 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,Eal=.06 Ea2=1.13, $\pi t=1.12$ ,PFC CHOKE 190uH 3.3A 1W ver UU26.0/22.0/16.0	11,2 fit
1	15-05-600016-1,15-05-600016-1,Bac=4330,Geh=DRAHT/6 SN 16.7 Inductor/transformer <16 kVA,Tbmax=120,Zfr=100%,Tref=85,Tb=95,Ar=10 A=.996,Eal=.06,Ea2=1.13, $\pi t=1.67$ ,XFMR 5.8mH 85-440V / 13V EF16	16,7 fit
2	IND 10uH SMD,3B-05-040015-5,Bac=4310,Tec=2000 SN 5.59 Geh=SMT/2,Inductor/small transformer High frequency > 25 kHz Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=5,A=.996,Eal=.06,Ea2=1.13, $\pi t=1.12$ IND(SMD) 10uH 10% LB2012T100KR	11,2 fit
1	RES-1K5-1-0805,71-05-341247-1,Bac=4230,Gec=SMT SN 0.252 Resistor metal film,Tbmax=125,Zfr=100%,Tref=55,Tb=65,Ar=0.2,A=.873 Eal=.16,Ea2=.44, $\pi t=1.26$ ,CHIP RES 1.5K 1% 1/8W 0805 PT 8x4MM	0,3 fit
1 227	Bac=5112,Soldering point machine,Ar=0.03,Tref=40 SN 0.03 Tb=50	36,8 fit