IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx PTB 09.0001X**

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Certificate history:

Issue 3 (2023-01-12)
Issue 2 (2013-08-02)
Issue 1 (2011-04-18)
Issue 0 (2009-02-24)

Status: **Current**

Issue No: 4

Date of Issue: 2023-10-26

Applicant: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Equipment: **Safety barrier type 9001**

Optional accessory:

Type of Protection: **intrinsic safety 'ia', increased safety 'ec'**

Marking: Ex ec [ia Ga] IIC T4 Gc AND [Ex ia Da] IIIC

Approved for issue on behalf of the IECEx Certification Body: **Dr.-Ing. Martin Thedens**

Position: **Head of Department "Explosion Protection in Sensor Technology and Instrumentation"**

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

IECEx Certificate of Conformity

Certificate No.: **IECEx PTB 09.0001X**

Date of issue: 2023-10-26 Issue No: 4

Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Manufacturing locations: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

DE/PTB/ExTR13.0031/01 DE/PTB/ExTR13.0031/02

Quality Assessment Report:

DE/BVS/QAR10.0002/19

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Safety barrier type 9001 / * *-***-***-**1

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Inside of the hazardous area the safety barrier of type 9001/**-***-***-**1 shall be installed into an enclosure that corresponds to an acknowledged type of protection according to
   EN 60079-0 and that provides a minimum degree of protection of IP54 according to
   EN 60529.
2. Outside of the hazardous area the safety barrier of type 9001/**-***-***-**1 shall be installed into an enclosure that provides a minimum degree of protection of IP54 according to EN 60529 or inside an area with maximum pollution degree 2 / overvoltage category III.
3. The safety barrier of type 9001/**-***-***-**1 shall be connected safely to the local equipotential bonding system.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Testing and documentation of the use of alternative Zener diodes
- Adaptation of the operating instructions to the correct field of application
- Formal corrections

Annex:

COCA09.0001X-04_1.pdf

Applicant: R. STAHL Schaltgeräte GmbH

Electrical Apparatus: Safety barrier, type 9001/**-***-***-**1

Description of equipment

The safety barriers of type 9001 are designed as passive networks which are used as an interface between non-intrinsically safe circuits and intrinsically safe circuits. Any equipment and circuits may be connected to the non-intrinsically safe side, provided that the following electrical data are complied with.

The devices can be installed outside of potentially explosive atmospheres or in hazardous areas up to category II 3 G. The application as category 3 – equipment requires an additional enclosure protection. The provided associated circuits correspond to category 1 and can be led into hazardous areas due to potentially explosive gas or dust atmospheres.

The terminals of the equipotential bonding conductor are connected to the local equipotential bonding system in failsafe manner.

The maximum permissible ambient temperature range reads -20 °C ≤ Ta ≤ +60 °C or +50 °C or +40 °C corresponding to the following tables.

Electrical Data

Non-intrinsically safe circuits

(Terminals 1 and 2)

type of protection Increased Safety Ex ec Gc

safety-related maximum voltage for the application as an associated apparatus:

U_m = 253 V

Nominal data correspond to the following table:

Type	T_a [°C]	U_N [V]	I_N [mA]	R_{min} [Ω]	R_{max} [Ω]
9001/0.-050-050-101	60	1…3	9,6..28,8	104	109
9001/0.-050-100-101	60	1..3	16,9..50,7	59	63
9001/0.-050-150-101	60	1..3	21..61	42	49
9001/0.-083-442-101	60	6	160	24	28
9001/0.-086-010-101	60	6	6	905	927
9001/0.-086-020-101	60	6	11	476	488
9001/0.-086-050-101	60	6	27	203	210
9001/0.-086-075-101	60	6	41	129	145
9001/0.-086-100-101	60	6	65	92	104
9001/0.-086-150-101	60	6	82	64	73
9001/0.-086-270-101	60	6	136	39	45
9001/0.-086-390-101	60	6	160	28	32
9001/0.-126-020-101	60	8	11	680	696
9001/0.-126-050-101	60	8	27	262	292
9001/0.-126-075-101	60	8	40	176	197
9001/0.-126-100-101	60	8	54	148	166

Type	T_a [°C]	U_N [V]	I_N [mA]	R_{min} [Ω]	R_{max} [Ω]
9001/0.-126-140-101	60	8	80	100	113
9001/0.-126-150-101	60	8	75	92	104
9001/0.-137- 065-101	60	10	41	214	239
9001/0.-158-005-101	60	12	4	3214	3282
9001/0.-158-150-101	60	12	88	120	136
9001/0.-168-007-101	60	12	5	2412	2464
9001/0.-168-020-101	60	12	12	906	928
9001/0.-168-050-101	60	12	28	377	419
9001/0.-168-075-101	60	12	45	234	262
9001/0.-168-100-101	60	12	68	177	199
9001/0.-199-010-101	60	16	6	2195	2243
9001/0.-199-020-101	60	16	13	1205	1233
9001/0.-199-038-101	60	16	26	539	599
9001/0.-199-050-101	60	16	34	415	462
9001/0.-199-070-101	60	16	55	292	326
9001/0.-199-100-101	60	16	66	216	242
9001/0.-199-150-101	60	16	95	149	168
9001/0.-252-070-101	60	20	47	378	422
9001/0.-280-020-101	60	24	15	1433	1588
9001/0.-280-050-101	60	24	36	597	664
9001/0.-280-075-101	60	24	51	416	464
9001/0.-280-085-101	60	24	64	339	375
9001/0.-280-100-101	60	24	75	286	319
9001/0.-280-110-101	60	24	81	263	293
9001/0.-280-165-101	50	24	121	177	199
9001/0.-315-020-101	60	26	14	1717	1901
9001/0.-315-050-101	60	26	37	653	725
9001/0.-315-070-101	60	26	50	491	546
9001/0.-398-020-101	60	36	16	2098	2323
9001/0.-398-050-101	60	36	39	872	968
9001/01-252-057-141	60	24 (20-35)	40	siehe Datenblatt / see data sheet	
9001/01-252-060-141	60	24 (20-35)	40	siehe Datenblatt / see data sheet	
9001/01-252-100-141	60	24 (20-35)	63,4	siehe Datenblatt / see data sheet	
9001/02-016-015-101	60	0,7	5	125	131
9001/02-016-050-101	60	0,7	16	38	42
9001/02-016-050-111	60	0,7	17	39,8	40,2
9001/02-016-150-101	60	0,7	35	18	20
9001/02-016-150-111	60	0,7	35	19,9	20,1
9001/02-016-320-101	60	0,7	50	11,3	13,8
9001/02-061-020-101	60	+/- 3	9	334	344
9001/02-061-050-101	60	+/- 3	22	134	140
9001/02-061-150-101	60	+/- 3	56	50	58
9001/02-093-003-101	60	+/- 6	1,7	3292	3362

Type	T_a [°C]	U_N [V]	I_N [mA]	R_{min} [Ω]	R_{max} [Ω]
9001/02-093-020-101	60	+/- 6	11,5	511	525
9001/02-093-030-101	60	+/- 6	16	334	344
9001/02-093-050-101	60	+/- 6	27	195	218
9001/02-093-075-101	60	+/- 6	36	148	166
9001/02-093-100-101	60	+/- 6	57	100	113
9001/02-093-120-101	60	+/- 6	67	83	94
9001/02-093-150-101	60	+/- 6	75	70	80
9001/02-093-250-101	60	+/- 6	120	46	53
9001/02-093-270-101	60	+/- 6	130	42	49
9001/02-093-390-101	60	+/- 6	160	31	37
9001/02-133-003-101	60	+/- 10	2	4708	4806
9001/02-133-020-101	60	+/- 10	13	748	766
9001/02-133-050-101	60	+/- 10	33	290	323
9001/02-133-075-101	60	+/- 10	49	195	218
9001/02-133-100-101	60	+/- 10	64	148	166
9001/02-133-120-101	60	+/- 10	79	119	134
9001/02-133-150-101	60	+/- 10	86	100	113
9001/02-175-020-101	60	+/- 12	12	996	1020
9001/02-175-050-101	60	+/- 12	28	377	413
9001/02-175-075-101	60	+/- 12	43	263	293
9001/02-175-100-101	60	+/- 12	54	196	220
9001/02-175-120-101	60	+/- 12	71	158	178
9001/02-175-150-101	60	+/- 12	86	130	146
9001/02-175-200-101	60	+/- 12	105	101	115
9001/02-196-010-101	60	+/- 16	8	2036	2080
9001/02-196-020-101	60	+/- 16	16	996	1020
9001/02-196-030-101	60	+/- 16	21	719	797
9001/02-196-050-101	60	+/- 16	36	415	461
9001/02-196-075-101	60	+/- 16	52	291	325
9001/02-196-100-101	60	+/- 16	70	215	241
9001/02-196-120-101	60	+/- 16	84	177	199
9001/02-196-125-101	60	+/- 16	84	177	199
9001/02-196-150-101	60	+/- 16	95	149	167
9001/02-224-020-101	60	+/- 18	15	1146	1270
9001/02-224-050-101	60	+/- 18	35	491	545
9001/02-224-075-101	60	+/- 18	53	320	356
9001/02-224-100-101	60	+/- 18	72	234	262
9001/02-224-120-101	60	+/- 18	86	196	220
9001/02-224-150-101	60	+/- 18	106	158	178
9001/02-280-015-101	60	+/- 24	11	2097	2321
9001/02-280-020-101	60	+/- 24	15	1527	1691
9001/02-280-050-101	60	+/- 24	38	596	662
9001/02-280-075-101	60	+/- 24	55	415	462

Type	T_a [°C]	U_N [V]	I_N [mA]	R_{min} [Ω]	R_{max} [Ω]
9001/02-280-090-101	60	+/- 24	70	320	357
9001/02-280-120-101	60	+/- 24	86	263	297
9001/02-307-075-101	60	+/- 24	55	416	464
9001/02-307-130-101	60	+/- 24	80	264	296
9001/02-412-040-101	60	+/- 36	30	1150	1276
9001/02-412-065-101	60	+/- 36	52	656	730
9001/02-412-095-101	60	+/- 36	63	456	508
9001/03-086-000-101	60	6	150	-	-
9001/04-086-000-101	60	6	150	-	-
9001/03-168-000-101	60	12	100	-	-
9001/04-168-000-101	60	12	100	-	-
9001/03-199-000-101	60	16	100	-	-
9001/04-199-000-101	60	16	100	-	-
9001/03-280-000-101	50	24	100	-	-
9001/04-280-000-101	50	24	100	-	-
9001/0.-158-270-101	60	12	100	69	79
9001/0.-158-390-101	60	12	100	51	59
9001/0.-199-270-101	60	16	100	84	96
9001/0.-199-390-101	60	16	100	62	72
9001/0.-280-280-101	50	24	100	116	132
9001/02-172-270-101	60	12	100	76	85
9001/02-172-390-101	60	12	100	56	64
9001/02-217-270-101	60	16	80	94	106
9001/02-217- 390-101	60	16	80	70	79
9001/02-308-230-101	60	24	65	150	168
9001/51-280-091-141	50	24 (20-35)	50	307	310
9001/51-280-110-141	40	24 (20-35)	50	254	259
9001/01-231-566-131	40	18	150	45,2	51,0

Intrinsically safe circuit
(terminals 3 and 4)

type of protection Intrinsic Safety Ex ia IIB/IIC Ga or Ex ia IIIC Da, linear characteristic, maximum values correspond to the following tables

Maximum values for individually occurring external reactances L_0 and C_0

Typ	T_a [°C]	U_O [V]	I_O [mA]	P_O [mW]		IIC	IIB
9001/0.-050-050-101	60	5	50	62,5	Lo / mH	15	56
					Co / µF	100	1000
9001/0.-050-100-101	60	5	100	125	Lo / mH	4	15
					Co / µF	100	1000
9001/0.-050-150-101	60	5	150	187,5	Lo / mH	1,3	7
					Co / µF	100	1000
9001/0.-083-442-101	60	8,3	442	917,2	Lo / mH	0,12	0,5
					Co / µF	7,2	73
9001/0.-086-010-101	60	8,6	10	21,5	Lo / mH	300	1000
					Co / µF	6,2	55
9001/0.-086-020-101	60	8,6	20	43	Lo / mH	90	330
					Co / µF	6,2	55
9001/0.-086-050-101	60	8,6	50	107,5	Lo / mH	15	56
					Co / µF	6,2	55
9001/0.-086-075-101	60	8,6	75	161,3	Lo / mH	6,7	25
					Co / µF	6,2	55
9001/0.-086-100-101	60	8,6	100	215	Lo / mH	4	15
					Co / µF	6,2	55
9001/0.-086-150-101	60	8,6	150	322,5	Lo / mH	1,3	7
					Co / µF	6,2	55
9001/0.-086-270-101	60	8,6	270	580,5	Lo / mH	0,23	2,2
					Co / µF	6,2	55
9001/0.-086-390-101	60	8,6	390	838,5	Lo / mH	0,16	0,89
					Co / µF	6,2	55
9001/0.-126-020-101	60	12,6	20	63	Lo / mH	90	330
					Co / µF	1,15	7,4
9001/0.-126-050-101	60	12,6	50	157,5	Lo / mH	15	56
					Co / µF	1,15	7,4
9001/0.-126-075-101	60	12,6	75	236,3	Lo / mH	6,7	25
					Co / µF	1,15	7,4
9001/0.-126-100-101	60	12,6	100	315	Lo / mH	4	15
					Co / µF	1,15	7,4
9001/0.-126-140-101	60	12,6	140	441	Lo / mH	1,6	8
					Co / µF	1,15	7,4
9001/0.-126-150-101	60	12,6	150	472,5	Lo / mH	1,3	7
					Co / µF	1,15	7,4
9001/0.-137- 065-101	60	13,7	65	222,6	Lo / mH	8,8	34
					Co / µF	0,79	5
9001/0.-158-005-101	60	15,8	5	19,75	Lo / mH	1000	1000
					Co / µF	0,478	2,88
9001/0.-158-150-101	60	15,8	150	592,5	Lo / mH	1,3	7
					Co / µF	0,478	2,88
9001/0.-168-007-101	60	16,8	7	29,4	Lo / mH	1000	720
					Co / µF	0,39	2,29
9001/0.-168-020-101	60	16,8	20	84	Lo / mH	90	330
					Co / µF	0,39	2,29
9001/0.-168-050-101	60	16,8	50	210	Lo / mH	15	56
					Co / µF	0,39	2,29
9001/0.-168-075-101	60	16,8	75	315	Lo / mH	6,7	25
					Co / µF	0,39	2,29

Typ	T_a [°C]	U_O [V]	I_O [mA]	P_O [mW]		IIC	IIB
9001/0.-168-100-101	60	16,8	100	420	Lo / mH	4	15
					Co / µF	0,39	2,29
9001/0.-199-010-101	60	19,9	10	49,75	Lo / mH	330	1000
					Co / µF	0,223	1,42
9001/0.-199-020-101	60	19,9	20	99,5	Lo / mH	90	330
					Co / µF	0,223	1,42
9001/0.-199-038-101	60	19,9	38	189,1	Lo / mH	26	95
					Co / µF	0,223	1,42
9001/0.-199-050-101	60	19,9	50	248,8	Lo / mH	15	56
					Co / µF	0,223	1,42
9001/0.-199-070-101	60	19,9	70	348,3	Lo / mH	7,5	28
					Co / µF	0,223	1,42
9001/0.-199-100-101	60	19,9	100	497,5	Lo / mH	4	15
					Co / µF	0,223	1,42
9001/0.-199-150-101	60	19,9	150	746,3	Lo / mH	1,3	7
					Co / µF	0,223	1,42
9001/0.-252-070-101	60	25,2	70	441	Lo / mH	4,5	25
					Co / µF	0,107	0,82
9001/0.-280-020-101	60	28	20	140	Lo / mH	50	50
					Co / µF	0,083	0,65
9001/0.-280-050-101	60	28	50	350	Lo / mH	8,5	25
					Co / µF	0,083	0,65
9001/0.-280-075-101	60	28	75	525	Lo / mH	3,3	21
					Co / µF	0,083	0,65
9001/0.-280-085-101	60	28	85	595	Lo / mH	2,4	16
					Co / µF	0,083	0,65
9001/0.-280-100-101	60	28	100	700	Lo / mH	1,6	11
					Co / µF	0,083	0,65
9001/0.-280-110-101	60	28	110	770	Lo / mH	1,2	9
					Co / µF	0,083	0,65
9001/0.-280-165-101	50	28	165	1155	Lo / mH	-	3,5
					Co / µF	-	0,65
9001/0.-315-020-101	60	31,5	20	157,5	Lo / mH	50	50
					Co / µF	0,056	0,41
9001/0.-315-050-101	60	31,5	50	393,8	Lo / mH	7,5	25
					Co / µF	0,056	0,41
9001/0.-315-070-101	60	31,5	70	551,3	Lo / mH	3,2	24
					Co / µF	0,056	0,41
9001/0.-398-020-101	60	39,8	20	199	Lo / mH	50	50
					Co / µF	0,03	0,26
9001/0.-398-050-101	60	39,8	50	497,5	Lo / mH	5,2	25
					Co / µF	0,03	0,26
9001/01-252-057-141	60	25,2	57	359,1	Lo / mH	6,3	25
					Co / µF	0,107	0,82
9001/01-252-060-141	60	25,2	60	378	Lo / mH	6,2	25
					Co / µF	0,107	0,82
9001/01-252-100-141	60	25,2	100	630	Lo / mH	2	11
					Co / µF	0,107	0,82
9001/02-016-015-101	60	1,6	15	6	Lo / mH	160	560
					Co / µF	100	1000
9001/02-016-050-101	60	1,6	50	20	Lo / mH	15	56
					Co / µF	100	1000
9001/02-016-050-111	60	1,6	50	20	Lo / mH	15	56
					Co / µF	100	1000
9001/02-016-150-101	60	1,6	150	60	Lo / mH	1,3	7
					Co / µF	100	1000

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100, 38116 Braunschweig, Germany
Postfach 33 45, 38023 Braunschweig, Germany
Telephone +49 531 592-0, Telefax +49 531 592-3605

Typ	T_a [°C]	U_O [V]	I_O [mA]	P_O [mW]		IIC	IIB
9001/02-016-150-111	60	1,6	150	60	Lo / mH	1,3	7
					Co / µF	100	1000
9001/02-016-320-101	60	1,6	320	128	Lo / mH	0,19	1,6
					Co / µF	100	1000
9001/02-061-020-101	60	6,1	20	30,5	Lo / mH	90	330
					Co / µF	37	880
9001/02-061-050-101	60	6,1	50	76,25	Lo / mH	15	56
					Co / µF	37	880
9001/02-061-150-101	60	6,1	150	228,8	Lo / mH	1,3	7
					Co / µF	37	880
9001/02-093-003-101	60	9,3	3	6,975	Lo / mH	1000	1000
					Co / µF	4,1	31
9001/02-093-020-101	60	9,3	20	46,5	Lo / mH	90	330
					Co / µF	4,1	31
9001/02-093-030-101	60	9,3	30	69,75	Lo / mH	40	150
					Co / µF	4,1	31
9001/02-093-050-101	60	9,3	50	116,3	Lo / mH	15	56
					Co / µF	4,1	31
9001/02-093-075-101	60	9,3	75	174,4	Lo / mH	6,7	25
					Co / µF	4,1	31
9001/02-093-100-101	60	9,3	100	232,5	Lo / mH	4	15
					Co / µF	4,1	31
9001/02-093-120-101	60	9,3	120	279	Lo / mH	2,5	10
					Co / µF	4,1	31
9001/02-093-150-101	60	9,3	150	348,8	Lo / mH	1,3	7
					Co / µF	4,1	31
9001/02-093-250-101	60	9,3	250	581,3	Lo / mH	0,27	2,7
					Co / µF	4,1	31
9001/02-093-270-101	60	9,3	270	627,8	Lo / mH	0,23	2,2
					Co / µF	4,1	31
9001/02-093-390-101	60	9,3	390	906,8	Lo / mH	0,16	0,89
					Co / µF	4,1	31
9001/02-133-003-101	60	13,3	3	9,975	Lo / mH	1000	1000
					Co / µF	0,91	5,6
9001/02-133-020-101	60	13,3	20	66,5	Lo / mH	90	330
					Co / µF	0,91	5,6
9001/02-133-050-101	60	13,3	50	166,3	Lo / mH	15	56
					Co / µF	0,91	5,6
9001/02-133-075-101	60	13,3	75	249,4	Lo / mH	6,7	25
					Co / µF	0,91	5,6
9001/02-133-100-101	60	13,3	100	332,5	Lo / mH	4	15
					Co / µF	0,91	5,6
9001/02-133-120-101	60	13,3	120	399	Lo / mH	2,5	10
					Co / µF	0,91	5,6
9001/02-133-150-101	60	13,3	150	498,8	Lo / mH	1,3	7
					Co / µF	0,91	5,6
9001/02-175-020-101	60	17,5	20	87,5	Lo / mH	90	330
					Co / µF	0,339	1,97
9001/02-175-050-101	60	17,5	50	218,8	Lo / mH	15	56
					Co / µF	0,339	1,97
9001/02-175-075-101	60	17,5	75	328,1	Lo / mH	6,7	25
					Co / µF	0,339	1,97
9001/02-175-100-101	60	17,5	100	437,5	Lo / mH	4	15
					Co / µF	0,339	1,97
9001/02-175-120-101	60	17,5	120	525	Lo / mH	2,5	10
					Co / µF	0,339	1,97

Typ	T_a [°C]	U_O [V]	I_O [mA]	P_O [mW]		IIC	IIB
9001/02-175-150-101	60	17,5	150	656,3	Lo / mH	1,3	7
					Co / µF	0,339	1,97
9001/02-175-200-101	60	17,5	200	875	Lo / mH	0,5	4
					Co / µF	0,339	1,97
9001/02-196-010-101	60	19,6	10	49	Lo / mH	330	1000
					Co / µF	0,235	1,47
9001/02-196-020-101	60	19,6	20	98	Lo / mH	90	330
					Co / µF	0,235	1,47
9001/02-196-030-101	60	19,6	30	147	Lo / mH	40	150
					Co / µF	0,235	1,47
9001/02-196-050-101	60	19,6	50	245	Lo / mH	15	56
					Co / µF	0,235	1,47
9001/02-196-075-101	60	19,6	75	367,5	Lo / mH	6,7	25
					Co / µF	0,235	1,47
9001/02-196-100-101	60	19,6	100	490	Lo / mH	4	15
					Co / µF	0,235	1,47
9001/02-196-120-101	60	19,6	120	588	Lo / mH	2,5	10
					Co / µF	0,235	1,47
9001/02-196-125-101	60	19,6	125	612,5	Lo / mH	2,2	9
					Co / µF	0,235	1,47
9001/02-196-150-101	60	19,6	150	735	Lo / mH	1,3	7
					Co / µF	0,235	1,47
9001/02-224-020-101	60	22,4	20	112	Lo / mH	90	330
					Co / µF	0,156	1,09
9001/02-224-050-101	60	22,4	50	280	Lo / mH	15	56
					Co / µF	0,156	1,09
9001/02-224-075-101	60	22,4	75	420	Lo / mH	6,7	25
					Co / µF	0,156	1,09
9001/02-224-100-101	60	22,4	100	560	Lo / mH	4	15
					Co / µF	0,156	1,09
9001/02-224-120-101	60	22,4	120	672	Lo / mH	2,5	10
					Co / µF	0,156	1,09
9001/02-224-150-101	60	22,4	150	840	Lo / mH	1,3	7
					Co / µF	0,156	1,09
9001/02-280-015-101	60	28	15	105	Lo / mH	50	50
					Co / µF	0,083	0,65
9001/02-280-020-101	60	28	20	140	Lo / mH	50	50
					Co / µF	0,083	0,65
9001/02-280-050-101	60	28	50	350	Lo / mH	8,5	25
					Co / µF	0,083	0,65
9001/02-280-075-101	60	28	75	525	Lo / mH	3,4	21
					Co / µF	0,083	0,65
9001/02-280-090-101	60	28	90	630	Lo / mH	2,2	14
					Co / µF	0,083	0,65
9001/02-280-120-101	60	28	120	840	Lo / mH	-	7
					Co / µF	-	0,65
9001/02-307-075-101	60	30,7	75	575,6	Lo / mH	2,9	20
					Co / µF	0,062	0,53
9001/02-307-130-101	60	30,7	130	997,8	Lo / mH	-	5,4
					Co / µF	-	0,53
9001/02-412-040-101	60	41,2	40	412	Lo / mH	8	25
					Co / µF	0,03	0,287
9001/02-412-065-101	60	41,2	65	669,5	Lo / mH	-	23
					Co / µF	-	0,287
9001/02-412-095-101	60	41,2	95	978,5	Lo / mH	-	9
					Co / µF	-	0,287

Typ	T_a [°C]	U_O [V]	I_O [mA]	P_O [mW]		IIC	IIB
9001/03-086-000-101	60	8,6	0	0	Lo / mH	1000	1000
					Co / µF	6,2	55
9001/03-168-000-101	60	16,8	0	0	Lo / mH	1000	1000
					Co / µF	0,39	2,29
9001/03-199-000-101	60	19,9	0	0	Lo / mH	1000	1000
					Co / µF	0,223	1,42
9001/03-280-000-101	50	28	0	0	Lo / mH	50	50
					Co / µF	0,083	0,65
9001/04-086-000-101	60	8,6	0	0	Lo / mH	1000	1000
					Co / µF	6,2	55
9001/04-168-000-101	60	16,8	0	0	Lo / mH	1000	1000
					Co / µF	0,39	2,29
9001/04-199-000-101	60	19,9	0	0	Lo / mH	1000	1000
					Co / µF	0,223	1,42
9001/04-280-000-101	50	28	0	0	Lo / mH	50	50
					Co / µF	0,083	0,65
9001/0.-158-270-101	60	15,8	270	1067	Lo / mH	0,23	2,2
					Co / µF	0,478	2,88
9001/0.-158-390-101	60	15,8	390	1541	Lo / mH	0,16	0,89
					Co / µF	0,478	2,88
9001/0.-199-270-101	60	19,9	270	1343	Lo / mH	0,23	2,2
					Co / µF	0,223	1,42
9001/0.-199-390-101	60	19,9	390	1940	Lo / mH	-	0,89
					Co / µF	-	1,42
9001/0.-280-280-101	50	28	280	1960	Lo / mH	-	0,6
					Co / µF	-	0,65
9001/02-172-270-101	60	17,2	270	1161	Lo / mH	0,23	2,2
					Co / µF	0,36	2,11
9001/02-172-390-101	60	17,2	390	1677	Lo / mH	0,16	0,89
					Co / µF	0,36	2,11
9001/02-217-270-101	60	21,7	270	1465	Lo / mH	-	2,2
					Co / µF	-	1,17
9001/02-217-390-101	60	21,7	390	2116	Lo / mH	-	0,89
					Co / µF	-	1,17
9001/02-308-230-101	60	30,8	230	1771	Lo / mH	-	0,7
					Co / µF	-	0,524
9001/51-280-091-141	50	28	91	637	Lo / mH	2,2	14
					Co / µF	0,083	0,65
9001/51-280-110-141	40	28	110	770	Lo / mH	1,2	9
					Co / µF	0,083	0,65

Maximum values for jointly occurring external reactances L_0 and C_0

Type	T_a [°C]	U_O [V]	I_O [mA]	P_O [mW]		IIC			IIB		
9001/0.-050-050-101	60	5	50	62.5	Lo / mH	20	1	0.1	50	1	0.1
					Co / µF	1.2	3.6	6.8	7.2	21	42
9001/0.-050-100-101	60	5	100	125	Lo / mH	5	1	0.1	20	1	0.1
					Co / µF	1.6	3.3	6.6	6.7	20	42
9001/0.-050-150-101	60	5	150	187.5	Lo / mH	2	1	0.1	10	1	0.1
					Co / µF	2	2.9	6.5	7.2	19	42
9001/0.-083-442-101	60	8.3	442	917.2	Lo / mH		0.2	0.1		1	0.1
					Co / µF		1.5	2.1		5.2	14
9001/0.-086-010-101	60	8.6	10	21.5	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.72	1.4	2.5	3.6	7.6	15

Type	T_a [°C]	U_o [V]	I_o [mA]	P_o [mW]		IIC			IIB		
9001/0.-086-020-101	60	8.6	20	43	Lo / mH	20	1	0.1	50	1	0.1
					Co / µF	0.58	1.4	2.5	3.4	7.5	15
9001/0.-086-050-101	60	8.6	50	107.5	Lo / mH	10	1	0.1	50	1	0.1
					Co / µF	0.65	1.3	2.4	2.5	7.4	15
9001/0.-086-075-101	60	8.6	75	161.3	Lo / mH	5	1	0.1	20	1	0.1
					Co / µF	0.7	1.2	2.4	2.9	7.2	14
9001/0.-086-100-101	60	8.6	100	215	Lo / mH	2	1	0.1	10	1	0.1
					Co / µF	0.91	1.2	2.4	3.4	7.1	14
9001/0.-086-150-101	60	8.6	150	322.5	Lo / mH	2	1	0.1	5	1	0.1
					Co / µF	0.69	1	2.3	3.8	6.8	14
9001/0.-086-270-101	60	8.6	270	580.5	Lo / mH		0.5	0.1	2	1	0.1
					Co / µF		1.1	2.2	4.4	6.1	14
9001/0.-086-390-101	60	8.6	390	838.5	Lo / mH		0.2	0.1		1	0.1
					Co / µF		1.5	2.1		5.3	14
9001/0.-126-020-101	60	12.6	20	63	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.28	0.71	1.15	1.7	3.9	7.4
9001/0.-126-050-101	60	12.6	50	157.5	Lo / mH	10	1	0.1	50	1	0.1
					Co / µF	0.31	0.67	1.15	1.2	3.8	7.4
9001/0.-126-075-101	60	12.6	75	236.3	Lo / mH	5	1	0.1	20	1	0.1
					Co / µF	0.34	0.63	1.15	1.4	3.7	7.4
9001/0.-126-100-101	60	12.6	100	315	Lo / mH	2	1	0.1	10	1	0.1
					Co / µF	0.45	0.6	1.15	1.7	3.6	7.4
9001/0.-126-140-101	60	12.6	140	441	Lo / mH	2	1	0.1	5	1	0.1
					Co / µF	0.36	0.53	1.15	1.9	3.5	7.4
9001/0.-126-150-101	60	12.6	150	472.5	Lo / mH		1	0.1	5	1	0.1
					Co / µF		0.51	1.15	1.9	3.5	7.4
9001/0.-137- 065-101	60	13.7	65	16.25	Lo / mH	5	1	0.2	20	1	0.2
					Co / µF	0.32	0.57	0.79	1.3	3.3	5
9001/0.-158-005-101	60	15.8	5	19.75	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.25	0.44	0.44	1.2	2.8	2.8
9001/0.-158-150-101	60	15.8	150	592.5	Lo / mH		1	0.1	5	1	0.1
					Co / µF		0.35	0.39	1.2	2.4	2.6
9001/0.-168-007-101	60	16.8	7	29.4	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.22	0.33	0.35	1.1	2	2.1
9001/0.-168-020-101	60	16.8	20	84	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.16	0.32	0.34	0.99	2	2.1
9001/0.-168-050-101	60	16.8	50	210	Lo / mH	10	1	0.1	50	1	0.1
					Co / µF	0.19	0.31	0.33	0.69	2	2
9001/0.-168-075-101	60	16.8	75	315	Lo / mH	5	1	0.1	20	1	0.1
					Co / µF	0.2	0.3	0.33	0.83	2	2
9001/0.-168-100-101	60	16.8	100	420	Lo / mH	2	1	0.1	10	1	0.1
					Co / µF	0.28	0.29	0.32	0.99	1.9	2
9001/0.-199-010-101	60	19.9	10	49.75	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.16	0.17	0.22	0.8	0.99	1.3
9001/0.-199-020-101	60	19.9	20	99.5	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.12	0.16	0.22	0.73	0.98	1.3
9001/0.-199-038-101	60	19.9	38	189.1	Lo / mH	20	1	0.1	50	1	0.1
					Co / µF	0.12	0.16	0.21	0.61	0.96	1.3
9001/0.-199-050-101	60	19.9	50	248.8	Lo / mH	10	1	0.1	50	1	0.1
					Co / µF	0.14	0.15	0.21	0.5	0.95	1.3
9001/0.-199-070-101	60	19.9	70	348.3	Lo / mH	5	1	0.1	20	1	0.1
					Co / µF	0.14	0.14	0.21	0.65	0.93	1.2
9001/0.-199-100-101	60	19.9	100	497.5	Lo / mH	2	1	0.1	10	1	0.1
					Co / µF	0.13	0.13	0.2	0.74	0.91	1.2
9001/0.-199-150-101	60	19.9	150	746.3	Lo / mH		1	0.1	5	1	0.1
					Co / µF		0.1	0.19	0.84	0.86	1.2

Type	T_a [°C]	U_o [V]	I_o [mA]	P_o [mW]		IIC			IIB		
9001/0.-252-070-101	60	25.2	70	441	Lo / mH	5	1	0.2	10	1	0.1
					Co / µF	0.05	0.069	0.107	0.39	0.44	0.82
9001/0.-280-020-101	60	28	20	140	Lo / mH	50	1	0.2	50	1	0.1
					Co / µF	0.054	0.07	0.083	0.32	0.39	0.65
9001/0.-280-050-101	60	28	50	350	Lo / mH	10	1	0.2	50	1	0.1
					Co / µF	0.041	0.062	0.083	0.28	0.38	0.65
9001/0.-280-075-101	60	28	75	525	Lo / mH	2	1	0.2	20	1	0.1
					Co / µF	0.043	0.056	0.083	0.26	0.36	0.65
9001/0.-280-085-101	60	28	85	595	Lo / mH		1	0.2	10	1	0.1
					Co / µF		0.053	0.083	0.25	0.35	0.65
9001/0.-280-100-101	60	28	100	700	Lo / mH		0.5	0.2	10	1	0.1
					Co / µF		0.066	0.083	0.24	0.35	0.65
9001/0.-280-110-101	60	28	110	770	Lo / mH			0.01	5	1	0.1
					Co / µF			0.083	0.23	0.34	0.65
9001/0.-280-165-101	50	28	165	1155	Lo / mH				2	1	0.1
					Co / µF				0.24	0.31	0.65
9001/0.-315-020-101	60	31.5	20	157.5	Lo / mH	50	2	1	50	1	0.2
					Co / µF	0.038	0.049	0.058	0.23	0.33	0.489
9001/0.-315-050-101	60	31.5	50	393.8	Lo / mH	5	1	0.5	50	1	0.2
					Co / µF	0.03	0.052	0.058	0.2	0.31	0.489
9001/0.-315-070-101	60	31.5	70	551.3	Lo / mH	2	1	0.5	20	1	0.2
					Co / µF	0.036	0.048	0.058	0.18	0.3	0.489
9001/0.-398-020-101	60	39.8	20	199	Lo / mH	50	5	1	50	1	0.1
					Co / µF	0.02	0.027	0.033	0.12	0.27	0.28
9001/0.-398-050-101	60	39.8	50	497.5	Lo / mH		1		20	1	0.1
					Co / µF		0.033		0.096	0.23	0.26
9001/01-252-057-141	60	25.2	57	359.1	Lo / mH	5	1	0.2	20	1	0.1
					Co / µF	0.057	0.073	0.107	0.41	0.45	0.82
9001/01-252-060-141	60	25.2	60	378	Lo / mH	5	1	0.2	20	1	0.1
					Co / µF	0.055	0.072	0.107	0.4	0.45	0.82
9001/01-252-100-141	60	25.2	100	630	Lo / mH		1	0.2	10	1	0.1
					Co / µF		0.061	0.107	0.37	0.42	0.81
9001/02-016-015-101	60	1.6	15	6	Lo / mH	20	1		50	1	
					Co / µF	21	37		96	220	
9001/02-016-050-101	60	1.6	50	20	Lo / mH	20	1		50	1	
					Co / µF	11	35		69	210	
9001/02-016-050-111	60	1.6	50	20	Lo / mH	20	1		50	1	
					Co / µF	11	35		69	210	
9001/02-016-150-101	60	1.6	150	60	Lo / mH	2	1		10	1	
					Co / µF	20	29		72	200	
9001/02-016-150-111	60	1.6	150	60	Lo / mH	2	1		10	1	
					Co / µF	20	29		72	200	
9001/02-016-320-101	60	1.6	320	128	Lo / mH			0.5	2	1	
					Co / µF			30	120	170	
9001/02-061-020-101	60	6.1	20	30.5	Lo / mH	50	1		50	1	
					Co / µF	1.1	2.6		6.6	14	
9001/02-061-050-101	60	6.1	50	76.25	Lo / mH	10	1		50	1	0.1
					Co / µF	1.3	2.5		4.9	14	28
9001/02-061-150-101	60	6.1	150	228.8	Lo / mH	2	1		5	1	0.1
					Co / µF	1.4	2		7.4	13	28
9001/02-093-003-101	60	9.3	3	6.975	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.69	1.2	2.2	3.3	6.6	13
9001/02-093-020-101	60	9.3	20	46.5	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.5	1.2	2.2	2.9	6.6	13
9001/02-093-030-101	60	9.3	30	69.75	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.34	1.2	2.1	2.7	6.5	13

Type	T_a [°C]	U_o [V]	I_o [mA]	P_o [mW]		IIC			IIB		
9001/02-093-050-101	60	9.3	50	116.3	Lo / mH	10	1	0.1	50	1	0.1
					Co / µF	0.56	1.1	2.1	2.1	6.4	13
9001/02-093-075-101	60	9.3	75	174.4	Lo / mH	5	1	0.1	20	1	0.1
					Co / µF	0.6	1.1	2.1	2.5	6.3	13
9001/02-093-100-101	60	9.3	100	232.5	Lo / mH	2	1	0.1	20	1	0.1
					Co / µF	0.78	1	2.1	2	6.2	13
9001/02-093-120-101	60	9.3	120	279	Lo / mH	2	1	0.1	10	1	0.1
					Co / µF	0.71	0.96	2.1	2.6	6.1	12
9001/02-093-150-101	60	9.3	150	348.8	Lo / mH	2	1	0.1	5	1	0.1
					Co / µF	0.59	0.89	2	3.3	5.9	12
9001/02-093-250-101	60	9.3	250	581.3	Lo / mH		0.5	0.1	2	1	0.1
					Co / µF		0.98	1.9	3.9	5.4	12
9001/02-093-270-101	60	9.3	270	627.8	Lo / mH		0.5	0.1	2	1	0.1
					Co / µF		0.94	1.9	3.8	5.3	12
9001/02-093-390-101	60	9.3	390	906.8	Lo / mH		0.2	0.1		1	0.1
					Co / µF		1.3	1.8		4.5	12
9001/02-133-003-101	60	13.3	3	9.975	Lo / mH	50	1	0.2	50	1	0.2
					Co / µF	0.36	0.67	0.91	1.7	3.6	5.6
9001/02-133-020-101	60	13.3	20	66.5	Lo / mH	50	1	0.2	50	1	0.2
					Co / µF	0.25	0.65	0.91	1.5	3.6	5.6
9001/02-133-050-101	60	13.3	50	166.3	Lo / mH	10	1	0.2	50	1	0.2
					Co / µF	0.28	0.61	0.91	1.1	3.5	5.6
9001/02-133-075-101	60	13.3	75	249.4	Lo / mH	5	1	0.2	20	1	0.1
					Co / µF	0.31	0.58	0.91	1.3	3.4	5.6
9001/02-133-100-101	60	13.3	100	332.5	Lo / mH	2	1	0.2	10	1	0.1
					Co / µF	0.41	0.55	0.91	1.5	3.3	5.6
9001/02-133-120-101	60	13.3	120	399	Lo / mH	2	1	0.2	10	1	0.1
					Co / µF	0.37	0.52	0.91	1.3	3.3	5.6
9001/02-133-150-101	60	13.3	150	498.8	Lo / mH		1	0.1	5	1	0.1
					Co / µF		0.47	0.91	1.7	3.2	5.6
9001/02-175-020-101	60	17.5	20	87.5	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.15	0.27	0.3	0.92	1.7	1.8
9001/02-175-050-101	60	17.5	50	218.8	Lo / mH	10	1	0.1	50	1	0.1
					Co / µF	0.17	0.26	0.29	0.64	1.6	1.8
9001/02-175-075-101	60	17.5	75	328.1	Lo / mH	5	1	0.1	20	1	0.1
					Co / µF	0.19	0.25	0.28	0.77	1.6	1.8
9001/02-175-100-101	60	17.5	100	437.5	Lo / mH	2	1	0.1	10	1	0.1
					Co / µF	0.24	0.24	0.28	0.92	1.6	1.7
9001/02-175-120-101	60	17.5	120	525	Lo / mH	2	1	0.1	10	1	0.1
					Co / µF	0.23	0.23	0.27	0.8	1.6	1.7
9001/02-175-150-101	60	17.5	150	656.3	Lo / mH		1	0.1	5	1	0.1
					Co / µF		0.22	0.26	1	1.5	1.7
9001/02-175-200-101	60	17.5	200	887.5	Lo / mH		0.5	0.1	2	1	0.1
					Co / µF		0.2	0.25	1.4	1.5	1.7
9001/02-196-010-101	60	19.6	10	49	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.16	0.18	0.23	0.82	1	1.3
9001/02-196-020-101	60	19.6	20	98	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.12	0.17	0.23	0.75	1	1.3
9001/02-196-030-101	60	19.6	30	147	Lo / mH	20	1	0.1	50	1	0.1
					Co / µF	0.14	0.17	0.22	0.68	1	1.3
9001/02-196-050-101	60	19.6	50	245	Lo / mH	10	1	0.1	50	1	0.1
					Co / µF	0.14	0.16	0.22	0.52	1	1.3
9001/02-196-075-101	60	19.6	75	367.5	Lo / mH	5	1	0.1	20	1	0.1
					Co / µF	0.15	0.15	0.21	0.63	0.98	1.3
9001/02-196-100-101	60	19.6	100	490	Lo / mH	2	1	0.1	10	1	0.1
					Co / µF	0.14	0.14	0.21	0.76	0.96	1.3

Type	T_a [°C]	U_o [V]	I_o [mA]	P_o [mW]		IIC			IIB		
9001/02-196-120-101	60	19.6	120	588	Lo / mH	2	1	0.1	10	1	0.1
					Co / µF	0.13	0.13	0.2	0.65	0.94	1.3
9001/02-196-125-101	60	19.6	125	612.5	Lo / mH		1	0.1	5	1	0.1
					Co / µF		0.12	0.2	0.94	0.94	1.3
9001/02-196-150-101	60	19.6	150	735	Lo / mH		1	0.1	5	1	0.1
					Co / µF		0.11	0.2	0.86	0.91	1.2
9001/02-224-020-101	60	22.4	20	112	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.099	0.11	0.156	0.6	0.64	1
9001/02-224-050-101	60	22.4	50	280	Lo / mH	10	1	0.1	50	1	0.1
					Co / µF	0.094	0.099	0.156	0.41	0.62	1
9001/02-224-075-101	60	22.4	75	420	Lo / mH	5	1	0.1	20	1	0.1
					Co / µF	0.082	0.09	0.156	0.5	0.59	0.99
9001/02-224-100-101	60	22.4	100	560	Lo / mH	2	1	0.1	10	1	0.1
					Co / µF	0.071	0.081	0.156	0.57	0.57	0.98
9001/02-224-120-101	60	22.4	120	672	Lo / mH		1	0.1	5	1	0.1
					Co / µF		0.075	0.156	0.55	0.56	0.97
9001/02-224-150-101	60	22.4	150	840	Lo / mH		0.5	0.1	5	1	0.1
					Co / µF		0.086	0.15	0.52	0.53	0.96
9001/02-280-015-101	60	28	15	105	Lo / mH	50	1	0.5	50	1	0.1
					Co / µF	0.056	0.071	0.083	0.32	0.4	0.65
9001/02-280-020-101	60	28	20	140	Lo / mH	50	1	0.2	50	1	0.1
					Co / µF	0.054	0.07	0.083	0.32	0.39	0.65
9001/02-280-050-101	60	28	50	350	Lo / mH	10	1	0.2	50	1	0.1
					Co / µF	0.041	0.062	0.083	0.28	0.38	0.65
9001/02-280-075-101	60	28	75	525	Lo / mH	2	1	0.2	20	1	0.1
					Co / µF	0.043	0.056	0.083	0.26	0.36	0.65
9001/02-280-090-101	60	28	90	630	Lo / mH		1	0.2	10	1	0.1
					Co / µF		0.052	0.083	0.25	0.35	0.65
9001/02-280-120-101	60	28	120	840	Lo / mH				5	1	0.1
					Co / µF				0.22	0.33	0.65
9001/02-307-075-101	60	30.7	75	575.6	Lo / mH		1	0.5	20	1	0.1
					Co / µF		0.048	0.062	0.19	0.31	0.524
9001/02-307-130-101	60	30.7	130	997.8	Lo / mH				2	1	0.1
					Co / µF				0.22	0.28	0.524
9001/02-412-040-101	60	41.2	40	412	Lo / mH	5	2		50	1	0.5
					Co / µF	0.022	0.031		0.096	0.23	0.24
9001/02-412-065-101	60	41.2	65	669.5	Lo / mH				10	1	0.5
					Co / µF				0.097	0.22	0.24
9001/02-412-095-101	60	41.2	95	978.5	Lo / mH				2	1	0.5
					Co / µF				0.16	0.21	0.23
9001/03-086-000-101	60	8.6	0	0	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.82	1.4	2.5	38	76	15
9001/03-168-000-101	60	16.8	0	0	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.24	0.33	0.35	1.1	2	2.1
9001/03-199-000-101	60	19.9	0	0	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.17	0.17	0.22	0.85	0.99	1.3
9001/03-280-000-101	50	28	0	0	Lo / mH	50	1	0.5	50	1	0.1
					Co / µF	0.062	0.075	0.083	0.34	0.41	0.65
9001/04-086-000-101	60	8.6	0	0	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.82	1.4	2.5	38	76	15
9001/04-168-000-101	60	16.8	0	0	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.24	0.33	0.35	1.1	2	2.1
9001/04-199-000-101	60	19.9	0	0	Lo / mH	50	1	0.1	50	1	0.1
					Co / µF	0.17	0.17	0.22	0.85	0.99	1.3
9001/04-280-000-101	50	28	0	0	Lo / mH	50	1	0.5	50	1	0.1
					Co / µF	0.062	0.075	0.083	0.34	0.41	0.65

Type	T_a [°C]	U_o [V]	I_o [mA]	P_o [mW]		IIC			IIB		
9001/0.-158-270-101	60	15.8	270	1067	Lo / mH		0.2	0.1	2	1	0.1
					Co / µF		0.34	0.35	1.4	2.1	2.5
9001/0.-158-390-101	60	15.8	390	1541	Lo / mH		0.2	0.1		1	0.1
					Co / µF		0.29	0.32		1.7	2.4
9001/0.-199-270-101	60	199	270	1343	Lo / mH			0.05		1	0.1
					Co / µF			0.22		0.74	1.1
9001/0.-199-390-101	60	19.9	390	1940	Lo / mH					0.5	0.1
					Co / µF					0.67	1.1
9001/0.-280-280-101	50	28	280	7	Lo / mH						
					Co / µF						
9001/02-172-270-101	60	17.2	270	1161	Lo / mH		0.2	0.1	2	1	0.1
					Co / µF		0.21	0.25	1.2	1.6	1.7
9001/02-172-390-101	60	17.2	390	1677	Lo / mH			0.1		1	0.1
					Co / µF			0.22		1.5	1.6
9001/02-217-270-101	60	21.7	270	1465	Lo / mH					1	0.1
					Co / µF					0.49	0.96
9001/02-217-390-101	60	21.7	390	2116	Lo / mH					0.2	0.1
					Co / µF					0.71	0.91
9001/02-308-230-101	60	30.8	230	1771	Lo / mH						
					Co / µF						
9001/51-280-091-141	50	28	91	637	Lo / mH		1	0.2	10	1	0.1
					Co / µF		0.052	0.083	0.25	0.35	0.65
9001/51-280-110-141	40	28	110	770	Lo / mH			0.01	5	1	0.1
					Co / µF			0.083	0.23	0.34	0.65

Typ	T_a [°C]	U_o [V]	I_o [mA]	P_o [mW]		IIA
9001/01-231-566-131	40	23,1	566	3270	Lo / mH	0,15
					Co / µF	0,92

All circuits are electrically interconnected and connected to earth using their reference conductors.