

Connections

HAZARDOUS AREA
 CLASS I, DIVISION 1 GROUPS A,B,C,D
 CLASS II, DIVISION 1 GROUPS E,F,G
 CLASS III, DIVISION 1

Any Simple Apparatus ② or I.S. devices with Entity Concept parameters ① (Vmax, Imax, Ci, Li) appropriate for connection to associated apparatus with Entity Concept parameters listed in the Entity Parameters table.

CONNECTION DIAGRAM 1

HAZARDOUS (CLASSIFIED) LOCATION
 CLASS I, DIVISION 2 GROUPS A,B,C,D
 CLASS II, DIVISION 2 GROUPS F,G
 CLASS III, DIVISION 2

Non-incendive field circuit with Entity Concept parameters ① (Vmax, Imax, Ci, Li) appropriate for connection to non-incendive source with Entity Concept parameters listed in the Entity Parameters table.

CONNECTION DIAGRAM 1A

HAZARDOUS AREA
 CLASS I, DIVISION 1 GROUPS A,B,C,D
 CLASS II, DIVISION 1 GROUPS E,F,G
 CLASS III, DIVISION 1

Any Simple Apparatus ② or I.S. devices with Entity Concept parameters ① (Vmax, Imax, Ci, Li) appropriate for connection to associated apparatus with Entity Concept parameters listed in the Entity Parameters table.

Any Simple Apparatus ② or I.S. devices with Entity Concept parameters ① (Vmax, Imax, Ci, Li) appropriate for connection to associated apparatus with Entity Concept parameters listed in the Entity Parameters table.

Note: Ground returns must be run separately.

CONNECTION DIAGRAM 2

HAZARDOUS (CLASSIFIED) LOCATION
 CLASS I, DIVISION 2 GROUPS A,B,C,D
 CLASS II, DIVISION 2 GROUPS F,G
 CLASS III, DIVISION 2

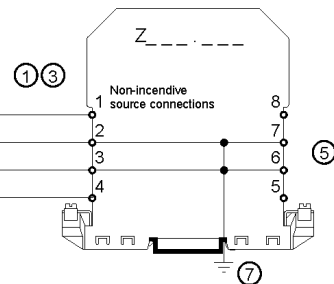
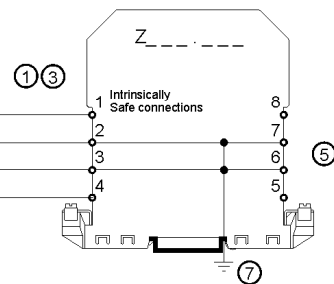
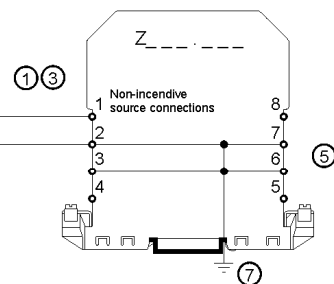
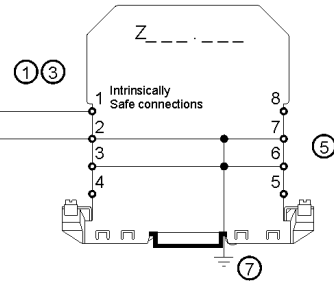
Non-incendive field circuit with Entity Concept parameters ① (Vmax, Imax, Ci, Li) appropriate for connection to non-incendive source with Entity Concept parameters listed in the Entity Parameters table.

Non-incendive field circuit with Entity Concept parameters ① (Vmax, Imax, Ci, Li) appropriate for connection to non-incendive source with Entity Concept parameters listed in the Entity Parameters table.

Note: Ground returns must be run separately.

CONNECTION DIAGRAM 2A

NON-HAZARDOUS AREA ⑥
 OR
 CLASS I, DIVISION 2, GROUPS A,B,C,D ⑥



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	Control Drawing	respons.	GB-PAW
	Installation Drawing for FM listed	approved	GB-TC
	Z7..., Z8..., Z9... Zener Barriers	norm	GB-PT
Global			116-0118E sheet 1 of 8

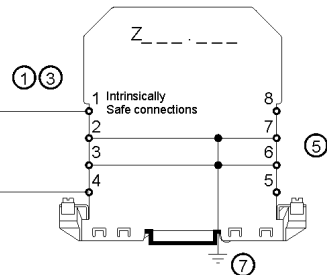
HAZARDOUS AREA

CLASS I, DIVISION 1 GROUPS A,B,C,D
 CLASS II, DIVISION 1 GROUPS E,F,G
 CLASS III, DIVISION 1

Any Simple Apparatus ② or I.S. devices with Entity Concept parameters ① (V_{max} , I_{max} , Ci, Li) appropriate for connection to associated apparatus with Entity Concept parameters listed in the Entity Parameters table.

CONNECTION DIAGRAM 3

NON-HAZARDOUS AREA ⑥
 OR
 CLASS I, DIVISION 2, GROUPS A,B,C,D ⑥

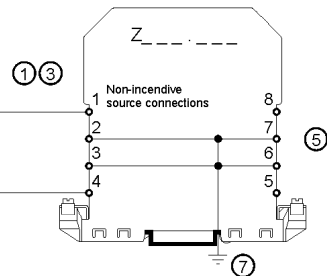


HAZARDOUS (CLASSIFIED) LOCATION

CLASS I, DIVISION 2 GROUPS A,B,C,D
 CLASS II, DIVISION 2 GROUPS F,G
 CLASS III, DIVISION 2

Non-incendive field circuit with Entity Concept parameters ① (V_{max} , I_{max} , Ci, Li) appropriate for connection to non-incendive source with Entity Concept parameters listed in the Entity Parameters table.

CONNECTION DIAGRAM 3A



HAZARDOUS AREA

CLASS I, DIVISION 1 GROUPS A,B,C,D
 CLASS II, DIVISION 1 GROUPS E,F,G
 CLASS III, DIVISION 1

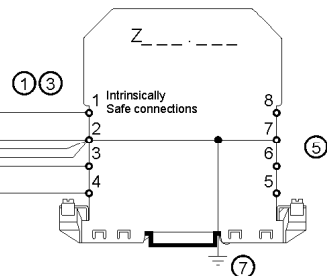
Any Simple Apparatus ② or I.S. devices with Entity Concept parameters ① (V_{max} , I_{max} , Ci, Li) appropriate for connection to associated apparatus with Entity Concept parameters listed in the Entity Parameters table.

Any Simple Apparatus ② or I.S. devices with Entity Concept parameters ① (V_{max} , I_{max} , Ci, Li) appropriate for connection to associated apparatus with Entity Concept parameters listed in the Entity Parameters table.

Any Simple Apparatus ② or I.S. devices with Entity Concept parameters ① (V_{max} , I_{max} , Ci, Li) appropriate for connection to associated apparatus with Entity Concept parameters listed in the Entity Parameters table.

Note: Ground returns must be run separately.

CONNECTION DIAGRAM 4



HAZARDOUS (CLASSIFIED) LOCATION

CLASS I, DIVISION 2 GROUPS A,B,C,D
 CLASS II, DIVISION 2 GROUPS F,G
 CLASS III, DIVISION 2

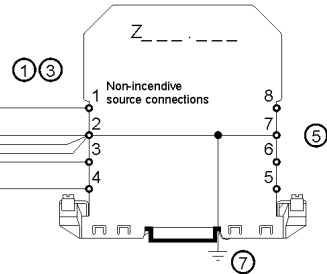
Non-incendive field circuit with Entity Concept parameters ① (V_{max} , I_{max} , Ci, Li) appropriate for connection to non-incendive source with Entity Concept parameters listed in the Entity Parameters table.

Non-incendive field circuit with Entity Concept parameters ① (V_{max} , I_{max} , Ci, Li) appropriate for connection to non-incendive source with Entity Concept parameters listed in the Entity Parameters table.

Non-incendive field circuit with Entity Concept parameters ① (V_{max} , I_{max} , Ci, Li) appropriate for connection to non-incendive source with Entity Concept parameters listed in the Entity Parameters table.

Note: Ground returns must be run separately.

CONNECTION DIAGRAM 4A



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PF PEPPERL+FUCHS	Control Drawing Installation Drawing for FM listed Z7.., Z8.., Z9.. Zener Barriers	respons.	GB-PAW
		approved	GB-TC
		norm	GB-PT
Global			116-0118E sheet 2 of 8

HAZARDOUS AREA
 CLASS I, DIVISION 1 GROUPS A,B,C,D
 CLASS II, DIVISION 1 GROUPS E,F,G
 CLASS III, DIVISION 1

Any Simple Apparatus ② or I.S. devices with Entity Concept parameters ① (V_{max} , I_{max} , C_i , L_i) appropriate for connection to associated apparatus with Entity Concept parameters listed in the Entity Parameters table.

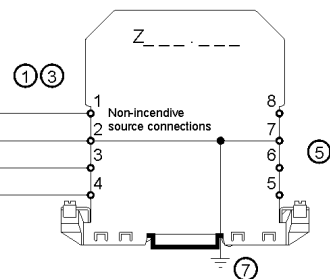
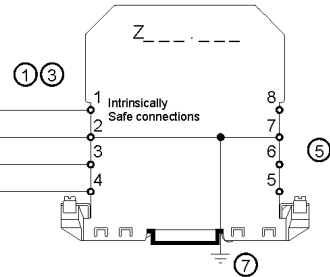
CONNECTION DIAGRAM 5

HAZARDOUS (CLASSIFIED) LOCATION
 CLASS I, DIVISION 2 GROUPS A,B,C,D
 CLASS II, DIVISION 2 GROUPS F,G
 CLASS III, DIVISION 2

Non-incendive field circuit with Entity Concept parameters ① (V_{max} , I_{max} , C_i , L_i) appropriate for connection to non-incendive source with Entity Concept parameters listed in the Entity Parameters table.

CONNECTION DIAGRAM 5A

NON-HAZARDOUS AREA ⑥
 OR
 CLASS I, DIVISION 2, GROUPS A,B,C,D ⑤



Notes

- The Entity Concept allows interconnection of non-incendive apparatus with associated apparatus not specifically examined in combination as a system when the approved values of V_{oc} (or U_o) and I_{sc} (or I_o) for the associated apparatus are less than or equal to V_{max} (U_i) and I_{max} (I_i) for the non-incendive apparatus and the approved values of C_a (C_o) and L_a (L_o) for the associated apparatus are greater than $C_i + C_{cable}$ and $L_i + L_{cable}$, respectively, for the intrinsically safe apparatus,
 Where $C_{cable} = 60pF/ft$ if unknown
 Where $L_{cable} = 0.20uH/ft$ if unknown

The parameters in the Entity parameters table apply when one of the two conditions below is given:

- The total L_i of the external circuit (excluding the cable) is $< 1\%$ of the L_o value or
- The total C_i of the external circuit (excluding the cable) is $< 1\%$ of the C_o value.

The parameters in the Entity parameters table are reduced to 50% when both of the two conditions below are given:

- The total L_i of the external circuit (excluding the cable) $> 1\%$ of the L_o and
- The total C_i of the external circuit (excluding the cable) $> 1\%$ of the C_o .


Note: the reduced capacitance of the external circuit (including cable) shall not be greater than 1uF for C, D, E, F, G (IIA, IIB) and 600nF for A, B (IIC).

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CONFIDENTIAL according ISO 16016	Only valid as long as released in EDM or with a valid production documentation!	scale:	date:2019-Jun-04
PF PEPPERL+FUCHS	Control Drawing Installation Drawing for FM listed Z7.., Z8.., Z9.. Zener Barriers	respons.	GB-PAW
		approved	GB-TC
		norm	GB-PT
Global			116-0118E sheet 3 of 8


2. Simple apparatus: an electrical component or combination of components of simple construction with well-defined electrical parameters that does not generate more than 1.5 V, 100mA, 25mW, or is a passive component that does not dissipate more than 1.3W and is compatible with the intrinsic safety of the circuit in which it is used.
3. Wiring methods must be in accordance with all applicable installation requirements of the county in use. For US, this is NFPA 70 (NEC) article 504 with additional information in ANSI-ISA –RP12.06.01.
4. Warning: Substitution of components may impair intrinsic safety and suitability for hazardous (classified) locations.

ADVERTISEMENT: le remplacement des composants peut altérer la sécurité intrinsèque et l'adéquation à une utilisation dans des zones dangereuses (classées).

5. Barriers shall not be connected to any device which uses or generates internally any voltage in excess of 250V Rms or DC unless the device has been determined to adequately isolate the voltage from the barrier.
6. The barriers are rated 'Nonincendive'. If the barriers are intended to be mounted in a Division 2 location, they must be mounted in an enclosure with a minimum ingress protection of IP2X. If the barriers are intended to be mounted in a Zone 2 location that is subject to contamination by water or dust, they must be mounted in an enclosure with a minimum ingress protection of IP54. If the barriers are intended to be mounted in a Zone 2 indoor location that is not subject to contamination by water or dust, they must be mounted in an enclosure with a minimum ingress protection of IP4X. The enclosure must be able to accept Division 2 / Zone 2 wiring methods. A temperature rating of T5 applies to all nonincendive rated barriers. In Class I, Division 2 / Class I, Zone 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Division 2 / Class I, Zone 2 wiring methods specified National Electrical Code (ANSI/NFPA 70).
7. Barriers must be connected to a suitable ground electrode per the National Electrical Code, ANSI/NFPA 70, Article 504. The resistance of the ground path must be less than 1 ohm. Any of the terminals 2,3,6,7 or the two wire clamp terminals at the base of the barrier may be used for this purpose. Alternatively, the ground connection may be established by mounting the barrier on standard 35mm DIN rail, when meeting the following conditions:
 - a. DIN rail must be standard 35mm DIN rail (35mm ± 0.3mm).
 - b. Any corrosion on the DIN rail must be removed and the DIN rail must be checked for the standard tolerance of 35mm ± 0.3mm.
 - c. A continuity check must be conducted between the DIN rail and any ground terminal on the barrier, terminals 2,3,6,7 or the wire clamp terminals at the base of the barrier.
 - d. Connect 35mm DIN rail to the ground electrode using hardware suitable to provide a ground path resistance of less than 1 ohm.


8.  WARNING – Do not replace fuse while circuit is live unless location is known to be nonhazardous.

This applies to fuse replaceable zener barriers identified by the addition of a .F to the model number.

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		approved	GB-TC
		norm	GB-PT
Global			116-0118E sheet 4 of 8

Entity Parameters


MODEL NUMBER	TERMINALS	Voc (V) (Uo)	Isc (mA) (Io)	Vt (V)	It (mA)	Groups Ca (µF)			Groups La(mH)		
						A,B (IIC)	C,E (IIB)	D,F,G (IIA)	A,B (IIC)	C,E (IIB)	D,F,G (IIA)
Z705	1,2	4.97	507	-	-	1000	3000	8000	0.10	0.17	1.17
Z710	1,2	9.77	200	-	-	3.51	10.5	28.1	0.48	4.08	7.50
Z710.CL	1,2	9.77	200	-	-	3.51	10.5	28.1	0.48	4.08	7.50
Z713	1,2	15.75	724	-	-	0.67	2.02	5.38	0.07	0.21	0.57
Z715	1,2	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
Z715.CL	1,2	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
Z715.F	1,2	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
Z715.1K	1,2	15.2	15.5	-	-	0.76	2.27	6.06	137	480	1215
Z722	1,2	22.7	155	-	-	0.24	0.72	1.92	1.10	6.67	12.5
Z722.CL	1,2	22.7	155	-	-	0.24	0.72	1.92	1.10	6.67	12.5
Z726	1,2	27.0	159	-	-	-	0.46	1.24	-	6.36	11.87
Z728	1,2	28	93	-	-	0.13	0.39	1.04	3.91	15.9	32.1
Z728.CL	1,2	28	93	-	-	0.13	0.39	1.04	3.91	15.9	32.1
Z728.F	1,2	28	93	-	-	0.13	0.39	1.04	3.91	15.9	32.1
Z728.H	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
Z728.H.F	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
Z755	1,2	4.97	507	-	-	1000	3000	8000	0.10	0.17	1.17
	3,4	4.97	507	-	-	1000	3000	8000	0.10	0.17	1.17
	1,2,3,4	-	-	5.97	1014	128	385	1026	0.02	0.05	0.15
Z757	1,2	7.30	745	-	-	12.3	36.8	98.2	0.03	0.09	0.29
	3,4	7.30	745	-	-	12.3	36.8	98.2	0.03	0.09	0.29
	1,2,3,4	-	-	8.30	1489	6.89	20.7	55.1	0.01	0.02	0.07
Z764	1,2	11.9	12.1	-	-	1.69	5.07	13.5	220	767	1,966
	3,4	11.9	12.1	-	-	1.69	5.07	13.5	220	767	1,966
	1,2,3,4	-	-	12.9	24.3	1.28	3.83	10.2	57.0	202	495
Z765	1,2	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
	3,4	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
	1,2,3,4	-	-	16.2	309	0.62	1.87	4.98	0.20	1.56	3.13
Z765.F	1,2	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
	3,4	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
	1,2,3,4	-	-	16.2	309	0.62	1.87	4.98	0.20	1.56	3.13
Z772	1,2	22.7	155	-	-	0.24	0.72	1.92	1.10	6.67	11.6
	3,4	22.7	155	-	-	0.24	0.72	1.92	1.10	6.67	12.5
	1,2,3,4	-	-	24.7	309	-	0.58	1.55	-	1.56	3.14
Z778	1,2	28	46	-	-	0.13	0.40	1.06	15.6	57.2	130
	3,4	28	46	-	-	0.13	0.40	1.06	15.6	57.2	130
	1,2,3,4	-	-	30	93	0.11	0.34	0.91	3.91	16.1	32.7
Z779	1,2	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	3,4	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	1,2,3,4	-	-	30	186	-	0.33	0.91	-	4.39	8.08
Z779.F	1,2	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	3,4	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	1,2,3,4	-	-	30	186	-	0.33	0.91	-	4.39	8.08
Z779.H	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	3,4	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	1,2,3,4	-	-	30	235.5	-	0.33	0.88	-	2.67	4.97
Z779.H.F	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	3,4	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	1,2,3,4	-	-	30	235.5	-	0.33	0.88	-	2.67	4.97
Z786	1,2	28	0	-	-	0.13	0.40	1.06	4.29	17.2	35.1
	3,4	28	0	-	-	0.13	0.40	1.06	4.29	17.2	35.1
	1,2,3,4	-	-	30	0	0.11	0.34	0.91	4.29	17.2	35.1

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 Global	Control Drawing Installation Drawing for FM listed Z7..., Z8..., Z9... Zener Barriers	respons.	GB-PAW
		approved	GB-TC
		norm	GB-PT
		116-0118E	
		sheet 5 of 8	

MODEL NUMBER	TERMINALS	Voc (V) (Uo)	Isc (mA) (Io)	Vt (V)	It (mA)	Groups Ca (µF)			Groups La(mH)		
						A,B (IIC)	C,E (IIB)	D,F,G (IIA)	A,B (IIC)	C,E (IIB)	D,F,G (IIA)
Z787	1,2	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	3,4	28	0	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	1,2,3,4	-	-	30	93	0.11	0.34	0.91	3.91	15.9	32.1
Z787.F	1,2	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	3,4	28	0	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	1,2,3,4	-	-	30	93	0.11	0.34	0.91	3.91	15.9	32.1
Z787.H	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	3,4	28	0	-	-	-	0.40	1.06	-	78.9	183.4
	1,2,3,4	-	-	30	119.2	-	0.33	0.92	-	10.2	19.7
Z787.H.F	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	3,4	28	0	-	-	-	0.40	1.06	-	78.9	183.4
	1,2,3,4	-	-	30	119.2	-	0.33	0.92	-	10.2	19.7
Z788	1,2	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	3,4	9.77	200	-	-	3.51	10.5	28.1	0.48	4.08	7.50
	1,2,3,4	-	-	29	293	0.12	0.37	0.98	0.21	1.74	3.43
Z788.R	1,2	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	3,4	9.77	200	-	-	3.51	10.5	28.1	0.48	4.08	7.50
	1,2,3,4	-	-	29	293	0.12	0.37	0.98	0.21	1.74	3.43
Z788.H	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	3,4	9.78	199.6	-	-	-	10.5	28.0	-	4.08	7.49
	1,2,3,4	-	-	30	321.8	-	0.33	0.97	-	1.40	2.89
Z788.R.H	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	3,4	9.78	199.6	-	-	-	10.5	28.0	-	4.08	7.49
	1,2,3,4	-	-	30	321.8	-	0.33	0.97	-	1.40	2.89
Z796	1,2	27.5	87.7	-	-	0.15	0.45	1.19	4.71	18.7	38.4
	3,4	20.8	51	-	-	0.30	0.91	2.44	13.6	50.3	113
	1,2,3,4	-	-	29.5	139	0.12	0.36	1.01	1.60	8.13	15.4
Z805	1,2	4.97	507	-	-	1000	3000	8000	0.10	0.17	1.17
Z810	1,2	9.77	200	-	-	3.51	10.5	28.1	0.48	4.08	7.50
Z810.CL	1,2	9.77	200	-	-	3.51	10.5	28.1	0.48	4.08	7.50
Z813	1,2	15.75	724	-	-	0.67	2.02	5.38	0.07	0.21	0.57
Z815	1,2	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
Z815.CL	1,2	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
Z815.F	1,2	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
Z815.1K	1,2	15.2	15.5	-	-	0.76	2.27	6.06	137	480	1215
Z822	1,2	22.7	155	-	-	0.24	0.72	1.92	1.10	6.67	12.5
Z822.CL	1,2	22.7	155	-	-	0.24	0.72	1.92	1.10	6.67	12.5
Z828	1,2	28	93	-	-	0.13	0.39	1.04	3.91	15.9	32.1
Z828.CL	1,2	28	93	-	-	0.13	0.39	1.04	3.91	15.9	32.1
Z828.F	1,2	28	93	-	-	0.13	0.39	1.04	3.91	15.9	32.1
Z828.H	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
Z828.H.F	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
Z855	1,2	4.97	507	-	-	1000	3000	8000	0.10	0.17	1.17
	3,4	4.97	507	-	-	1000	3000	8000	0.10	0.17	1.17
	1,2,3,4	-	-	5.97	1014	128	385	1026	0.02	0.05	0.15
Z857	1,2	7.30	745	-	-	12.3	36.8	98.2	0.03	0.09	0.29
	3,4	7.30	745	-	-	12.3	36.8	98.2	0.03	0.09	0.29
	1,2,3,4	-	-	8.30	1489	6.89	20.7	55.1	0.01	0.02	0.07
Z864	1,2	11.9	12.1	-	-	1.69	5.07	13.5	220	767	1,966
	3,4	11.9	12.1	-	-	1.69	5.07	13.5	220	767	1,966
	1,2,3,4	-	-	12.9	24.3	1.28	3.83	10.2	57.0	202	495
Z865	1,2	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
	3,4	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
	1,2,3,4	-	-	16.2	309	0.62	1.87	4.98	0.20	1.56	3.13

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		approved	GB-TC
		norm	GB-PT
		116-0118E	
		sheet 6 of 8	


MODEL NUMBER	TERMINALS	Voc (V) (Uo)	Isc (mA) (Io)	Vt (V)	It (mA)	Groups Ca (µF)			Groups La(mH)		
						A,B (IIC)	C,E (IIB)	D,F,G (IIA)	A,B (IIC)	C,E (IIB)	D,F,G (IIA)
Z865.F	1,2	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
	3,4	15.2	155	-	-	0.76	2.27	6.06	1.09	6.65	12.4
	1,2,3,4	-	-	16.2	309	0.62	1.87	4.98	0.20	1.56	3.13
Z872	1,2	22.7	155	-	-	0.24	0.72	1.92	1.10	6.67	11.6
	3,4	22.7	155	-	-	0.24	0.72	1.92	1.10	6.67	12.5
	1,2,3,4	-	-	24.7	309	-	0.58	1.55	-	1.56	3.14
Z878	1,2	28	46	-	-	0.13	0.40	1.06	15.6	57.2	130
	3,4	28	46	-	-	0.13	0.40	1.06	15.6	57.2	130
	1,2,3,4	-	-	30	93	0.11	0.34	0.91	3.91	16.1	32.7
Z879	1,2	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	3,4	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	1,2,3,4	-	-	30	186	-	0.33	0.91	-	4.39	8.08
Z879.F	1,2	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	3,4	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	1,2,3,4	-	-	30	186	-	0.33	0.91	-	4.39	8.08
Z879.H	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	3,4	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	1,2,3,4	-	-	30	235.5	-	0.33	0.88	-	2.67	4.97
Z879.H.F	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	3,4	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	1,2,3,4	-	-	30	235.5	-	0.33	0.88	-	2.67	4.97
Z886	1,2	28	0	-	-	0.13	0.40	1.06	4.29	17.2	35.1
	3,4	28	0	-	-	0.13	0.40	1.06	4.29	17.2	35.1
	1,2,3,4	-	-	30	0	0.11	0.34	0.91	4.29	17.2	35.1
Z887	1,2	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	3,4	28	0	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	1,2,3,4	-	-	30	93	0.11	0.34	0.91	3.91	15.9	32.1
Z887.F	1,2	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	3,4	28	0	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	1,2,3,4	-	-	30	93	0.11	0.34	0.91	3.91	15.9	32.1
Z887.H	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	3,4	28	0	-	-	-	0.40	1.06	-	78.9	183.4
	1,2,3,4	-	-	30	119.2	-	0.33	0.92	-	10.2	19.7
Z887.H.F	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	3,4	28	0	-	-	-	0.40	1.06	-	78.9	183.4
	1,2,3,4	-	-	30	119.2	-	0.33	0.92	-	10.2	19.7
Z888	1,2	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	3,4	9.77	200	-	-	3.51	10.5	28.1	0.48	4.08	7.50
	1,2,3,4	-	-	29	293	0.12	0.37	0.98	0.21	1.74	3.43
Z888.R	1,2	28	93	-	-	0.13	0.40	1.06	3.91	15.9	32.1
	3,4	9.56	195	-	-	3.51	10.5	28.1	0.48	4.08	7.50
	1,2,3,4	-	-	28	288	0.12	0.37	0.98	0.21	1.74	3.43
Z888.H	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	3,4	9.78	199.6	-	-	-	10.5	28.0	-	4.08	7.49
	1,2,3,4	-	-	30	321.8	-	0.33	0.97	-	1.40	2.89
Z888.R.H	1,2	28	119.2	-	-	-	0.40	1.06	-	10.2	19.7
	3,4	9.78	199.6	-	-	-	10.5	28.0	-	4.08	7.49
	1,2,3,4	-	-	30	321.8	-	0.33	0.97	-	1.40	2.89
Z896	1,2	27.5	87.7	-	-	0.15	0.45	1.19	4.71	18.7	38.4
	3,4	20.8	51	-	-	0.30	0.91	2.44	13.6	50.3	113
	1,2,3,4	-	-	29.5	139	0.12	0.36	1.01	1.60	8.13	15.4

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		approved	GB-TC
		norm	GB-PT
		116-0118E	
		sheet 7 of 8	

MODEL NUMBER	TERMINALS	Voc (V) (Uo)	Isc (mA) (Io)	Vt (V)	It (mA)	Groups Ca (µF)			Groups La(mH)		
						A,B (IIC)	C,E (IIB)	D,F,G (IIA)	A,B (IIC)	C,E (IIB)	D,F,G (IIA)
Z905	1,2	5.10	520	-	-	1000	3000	8000	0.09	0.13	1.11
Z910	1,2	10.3	210	-	-	2.89	8.68	23.1	0.42	3.70	6.79
Z915	1,2	15.5	158	-	-	0.71	2.14	5.70	1.02	6.41	12.0
Z915.1k	1,2	15.5	15.8	-	-	0.71	2.14	5.70	132	462	1169
Z928	1,2	28	93	-	-	0.13	0.40	1.08	3.91	15.9	32.1
Z954	1,2	5.10	433	-	-	1000	3000	8000	0.13	0.51	1.60
	2,3	5.10	433	-	-	1000	3000	8000	0.13	0.51	1.60
	2,4	5.10	433	-	-	1000	3000	8000	0.13	0.51	1.60
	1,2,3,4	-	-	10.2	1300	2.97	8.93	23.8	0.01	0.03	0.09
Z955	1,2	5.10	520	-	-	1000	3000	8000	0.09	0.13	1.11
	3,4	5.10	520	-	-	1000	3000	8000	0.09	0.13	1.11
	1,2,3,4	-	-	10.2	1040	2.99	8.97	23.9	0.01	0.05	0.15
Z960	1,2	10.3	210	-	-	2.90	8.68	23.1	0.42	3.70	6.80
	3,4	10.3	210	-	-	2.90	8.68	23.1	0.42	3.70	6.80
	1,2,3,4	-	-	10.3	419	2.90	8.68	23.1	0.14	0.59	1.71
Z960.F	1,2	10.3	210	-	-	2.90	8.68	23.1	0.42	3.70	6.80
	3,4	10.3	210	-	-	2.90	8.68	23.1	0.42	3.70	6.80
	1,2,3,4	-	-	10.3	419	2.90	8.68	23.1	0.14	0.59	1.71
Z961	1,2	8.7	91.8	-	-	5.9	50	1000	4.30	17.2	35.1
	3,4	8.7	91.8	-	-	5.9	50	1000	4.30	17.2	35.1
	1,2,3,4	-	-	17.4	184	0.346	2.02	8.4	0.62	4.80	8.84
Z961.F	1,2	9.0	91.8	-	-	5.01	15.0	40.1	4.30	17.2	35.1
	3,4	9.0	91.8	-	-	5.01	15.0	40.1	4.30	17.2	35.1
	1,2,3,4	-	-	18.0	184	0.43	1.30	3.46	0.62	4.80	8.84
Z961.H	1,2	9.63	26.3	-	-	4.41	13.25	35.33	49	174	423.5
	3,4	9.63	26.3	-	-	4.41	13.25	35.33	49	174	423.5
	1,2,3,4	-	-	18.5	52.5	0.40	1.19	3.18	12.88	47.6	106.6
Z964	1,2	12.4	12.6	-	-	1.45	4.35	11.6	204	714	1826
	3,4	12.4	12.6	-	-	1.45	4.35	11.6	204	714	1826
	1,2,3,4	-	-	24.7	25.2	0.18	0.56	1.48	53.1	188	460
Z965	1,2	15.5	158	-	-	0.68	2.05	5.48	1.02	6.41	12.0
	3,4	15.5	158	-	-	0.68	2.05	5.48	1.02	6.41	12.0
	1,2,3,4	-	-	15.5	316	0.68	2.05	5.48	0.19	1.48	3.01
Z966	1,2	12.4	84	-	-	1.45	4.35	11.6	5.14	20.2	41.9
	3,4	12.4	84	-	-	1.45	4.35	11.6	5.14	20.2	41.9
	1,2,3,4	-	-	24.7	168	0.18	0.56	1.48	0.83	5.69	10.5
Z966.F	1,2	12.4	84	-	-	1.45	4.35	11.6	5.14	20.2	41.9
	3,4	12.4	84	-	-	1.45	4.35	11.6	5.14	20.2	41.9
	1,2,3,4	-	-	24.7	168	0.18	0.56	1.48	0.83	5.69	10.5
Z966.H	1,2	12.31	167.6	-	-	1.46	4.39	11.71	0.84	5.72	10.61
	3,4	12.31	167.6	-	-	1.46	4.39	11.71	0.84	5.72	10.61
	1,2,3,4	-	-	24.63	335.1	-	0.56	1.49	-	1.25	2.67
Z967	1,2	17.3	147	-	-	0.49	1.47	3.92	1.31	7.33	13.8
	3,4	17.3	147	-	-	0.49	1.47	3.92	1.31	7.33	13.8
	1,2,3,4	-	-	17.3	294	0.49	1.47	3.92	0.21	1.77	3.48
Z972	1,2	22.7	75.5	-	-	0.23	0.69	1.84	6.36	24.6	51.9
	3,4	22.7	75.5	-	-	0.23	0.69	1.84	6.36	24.6	51.9
	1,2,3,4	-	-	22.7	151	0.23	0.69	1.84	1.19	6.96	13.0
Z978	1,2	28	46	-	-	0.13	0.38	1.02	15.6	57.2	130
	3,4	28	46	-	-	0.13	0.38	1.02	15.6	57.2	130
	1,2,3,4	-	-	28	93	0.13	0.38	1.02	3.99	16.1	32.7

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