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2CL SERIES

High Voltage Rectifier Series

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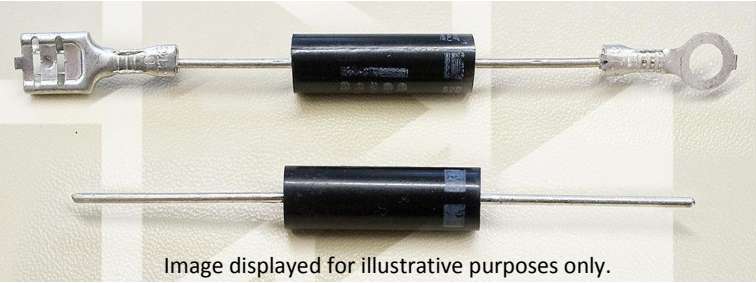


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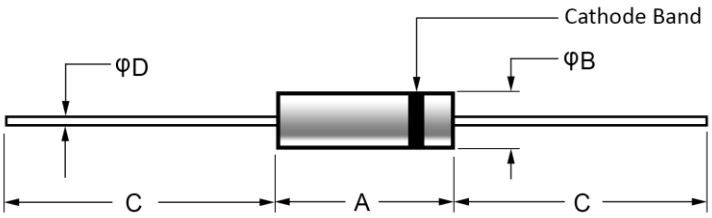
The 2CL series can be ordered from our company with quick-release crimps. Please add –QR to the end of the part number.

PRODUCT ABSTRACT

2CL is a diverse series of high frequency, high voltage rectifiers designed for prolonged use at high power and temperature. The 2CL is notable for its avalanche breakdown protection in addition to a low leakage current and fast recovery time. Each semiconductor comes in an axial epoxy resin package that is heat resistant to temperatures up to one hundred-fifty degrees Celsius and down to negative forty Celsius.

Applications include x-ray generators, induction heaters, transmitter power supplies, and so on.

SERIES DIMENSIONAL DATA



Notes: All dimensions in millimeters. B & D are ±0.03.

Series Type	A	ΦB	C	ΦD
2CL70	8	3	25.0 Min	0.6±
2CL71	8	3	25.0 Min	0.6±
2CL72	10	3	25.0 Min	0.6±
2CL73	10	3	25.0 Min	0.6±
2CL74	10	3	25.0 Min	0.6±
2CL75	12	3	25.0 Min	0.6±
2CL77	12	3	25.0 Min	0.6±
2CL70A	6.5	2.5	25.0 Min	0.6±
2CL71A	6.5	2.5	25.0 Min	0.6±
2CL72A	10	2.5	25.0 Min	0.6±
2CL73A	10	2.5	25.0 Min	0.6±
2CL75A	10	2.5	25.0 Min	0.6±
2CL01-09	22	7.5	25.0 Min	0.6±
2CL01-12	22	7.5	25.0 Min	0.6±
2CL04-12	22	7.5	25.0 Min	0.6±
2CL01-12A	22	7.5	25.0 Min	0.6±
2CL04-12A	22	7.5	25.0 Min	0.6±
2CL15KV/20mA	12	3	25.0 Min	0.6±
2CL18KV/20mA	12	3	25.0 Min	0.6±
2CL20KV/20mA	12	3	25.0 Min	0.6±
2CL25KV/20mA	12	3	25.0 Min	0.6±
2CL15KV/30mA	12	3	25.0 Min	0.6±
2CL18KV/30mA	12	3	25.0 Min	0.6±
2CL20KV/30mA	12	3	25.0 Min	0.6±
2CL25KV/30mA	12	3	25.0 Min	0.6±
2CL0508	15	4.5	25.0 Min	0.8±
2CL0510	15	4.5	25.0 Min	0.8±
2CL0512	15	4.5	25.0 Min	0.8±
2CL0515	15	4.5	25.0 Min	0.8±
2CL0518	15	4.5	25.0 Min	0.8±
2CL0520	15	4.5	25.0 Min	0.8±
2CL0508	15	4.5	25.0 Min	0.8±
2CL0510	15	4.5	25.0 Min	0.8±
2CL0512	15	4.5	25.0 Min	0.8±
2CL0515	15	4.5	25.0 Min	0.8±
2CL0518	15	4.5	25.0 Min	0.8±
2CL0520	15	4.5	25.0 Min	0.8±
2CL10-04	6.5	2.5	25.0 Min	0.8±
2CL10-06	6.5	2.5	25.0 Min	0.8±
2CL10-08	15	4.5	25.0 Min	0.8±
2CL10-10	15	4.5	25.0 Min	0.8±
2CL10-12	15	4.5	25.0 Min	0.8±
2CL10-15	15	4.5	25.0 Min	0.8±
2CL10-08	15	4.5	25.0 Min	0.8±

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SERIES DIMENSIONAL DATA (cont.)

2CL10-10	15	4.5	25.0 Min	0.8±	CL01-12	22	7.5	25.0 Min	0.8±
2CL10-12	15	4.5	25.0 Min	0.8±	CL01-15	22	7.5	25.0 Min	0.8±
2CL10-15	15	4.5	25.0 Min	0.8±	CL04-09	22	7.5	25.0 Min	0.8±
2CL10-20	15	4.5	25.0 Min	0.8±	CL04-12	22	7.5	25.0 Min	0.8±
2CL20-04	6.5	2.5	25.0 Min	0.8±	CL04-15	22	7.5	25.0 Min	0.8±
2CL20-08	15 / 9	4.5 / 5	25.0 Min	0.8±	CL01-10D	9	5	25.0 Min	0.8±
2CL20-10	15 / 9	4.5 / 5	25.0 Min	0.8±	CL01-12D	9	5	25.0 Min	0.8±
2CL20-12	15 / 9	4.5 / 5	25.0 Min	0.8±	CL01-15D	9	5	25.0 Min	0.8±
2CL20-15	15 / 9	4.5 / 5	25.0 Min	0.8±	CL03-10T	22	7.5	20.0 Min	1.2±
2CL20-06T	15 / 22	4.5 / 7.5	25.0 Min	0.8±	CL03-12T	22	7.5	20.0 Min	1.2±
2CL20-08T	15 / 22	4.5 / 7.5	25.0 Min	0.8±	CL03-15T	22	7.5	20.0 Min	1.2±
2CL20-10T	15 / 22	4.5 / 7.5	25.0 Min	0.8±	CL03-18T	22	7.5	20.0 Min	1.2±
2CL20-12T	15 / 22	4.5 / 7.5	25.0 Min	0.8±	CL05-08T	22	7.5	20.0 Min	1.2±
2CL20-15T	15 / 22	4.5 / 7.5	25.0 Min	0.8±	CL05-10T	22	7.5	20.0 Min	1.2±
2CL20-18T	15 / 22	4.5 / 7.5	25.0 Min	0.8±	CL05-12T	22	7.5	20.0 Min	1.2±
CL01-09	22	7.5	25.0 Min	0.8±	CL05-15T	22	7.5	20.0 Min	1.2±

SERIES ELECTRICAL SPECIFICATIONS (cont.)

Series Type	V_{RRM} (kV)	$I_{F(AV)}$ (mA)	V_{FM} (V)	I_{FSM} (A)	I_{RRM} (µA)	trr (nS)
2CL10-04	4	100	5	10	2.0	---
2CL20-04	4	200	7	20	2.0	---
2CL70	6	5	24.0	0.5	2.0	80
2CL70A	6	5	24.0	0.5	2.0	80
2CL10-06	6	100	7	10	2.0	---
2CL20-06T	6	200	15	20	2.0	100/80
2CL71	8	5	30.0	0.5	2.0	80
2CL71A	8	5	30.0	0.5	2.0	80
2CL0508	8	50	9	5	2.0	---
2CL0508	8	50	16	5	2.0	100
2CL10-08	8	100	9	10	2.0	---
2CL10-08	8	100	16	10	2.0	100
2CL20-08	8	200	9	20	2.0	---
2CL20-08T	8	200	16	20	2.0	100/80
CL05-08T	8	500	16	40	5.0	100/80
2CL01-09	9	350	10	30	5.0	---
CL01-09	9	350	10	30	5.0	---
CL04-09	9	350	10	40	5.0	---

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SERIES ELECTRICAL SPECIFICATIONS (cont.)

2CL72	10	5	36.0	0.5	2.0	80
2CL72A	10	5	36.0	0.5	2.0	80
2CL0510	10	50	11	5	2.0	---
2CL0510	10	50	18	5	2.0	100
2CL10-10	10	100	11	10	2.0	---
2CL10-10	10	100	18	10	2.0	100
2CL20-10	10	200	11	20	2.0	---
2CL20-10T	10	200	18	20	2.0	100/80
CL01-10D	10	350	11	30	5.0	---
CL03-10T	10	300	18	30	5.0	100/80
CL05-10T	10	500	18	40	5.0	100/80
2CL73	12	5	45.0	0.5	2.0	80
2CL73A	12	5	45.0	0.5	2.0	80
2CL01-12	12	350	12	30	5.0	---
2CL04-12	12	500	12	40	5.0	---
2CL01-12A	12	350	12	30	5.0	---
2CL04-12A	12	500	12	40	5.0	---
2CL0512	12	50	13	5	2.0	---
2CL0512	12	50	22	5	2.0	100
2CL10-12	12	100	13	10	2.0	---
2CL10-12	12	100	22	10	2.0	100
2CL20-12	12	200	13	20	2.0	---
2CL20-12T	12	200	22	20	2.0	100/80
CL01-12	12	350	13	30	5.0	---
CL04-12	12	350	13	40	5.0	---
CL01-12D	12	350	13	30	5.0	---
CL03-12T	12	300	20	30	5.0	100/80
CL05-12T	12	500	20	40	5.0	100/80
2CL74	14	5	51.0	0.5	2.0	80
2CL75A	14	5	51.0	0.5	2.0	80
2CL15KV/20mA	15	20	45	2	2.0	100
2CL15KV/30mA	15	30	45	2	2.0	100
2CL0515	15	50	16	5	2.0	---
2CL0515	15	50	26	5	2.0	100
2CL10-15	15	100	16	10	2.0	---
2CL10-15	15	100	26	10	2.0	100
2CL20-15	15	200	16	20	2.0	---
2CL20-15T	15	200	26	20	2.0	100/80
CL01-15	15	350	16	30	5.0	---

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SERIES ELECTRICAL SPECIFICATIONS (cont.)

CL04-15	15	350	16	40	5.0	---
CL01-15D	15	350	16	30	5.0	---
CL03-15T	15	300	24	30	5.0	100/80
CL05-15T	15	500	24	40	5.0	100/80
2CL75	16	5	60.0	0.5	2.0	80
2CL18KV/20mA	18	20	50	2	2.0	100
2CL18KV/30mA	18	30	50	2	2.0	100
2CL0518	18	50	20	5	2.0	---
2CL0518	18	50	30	5	2.0	100
2CL20-18T	18	200	35	20	2.0	100/80
CL03-18T	18	300	35	30	5.0	100/80
2CL77	20	5	75.0	0.5	2.0	80
2CL20KV/20mA	20	20	55	2	2.0	100
2CL20KV/30mA	20	30	55	2	2.0	100
2CL0520	20	50	22	5	2.0	---
2CL0520	20	50	35	5	2.0	100
2CL10-20	20	100	35	10	2.0	100
2CL25KV/20mA	25	20	60	2	2.0	100
2CL25KV/30mA	25	30	60	2	2.0	100

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