



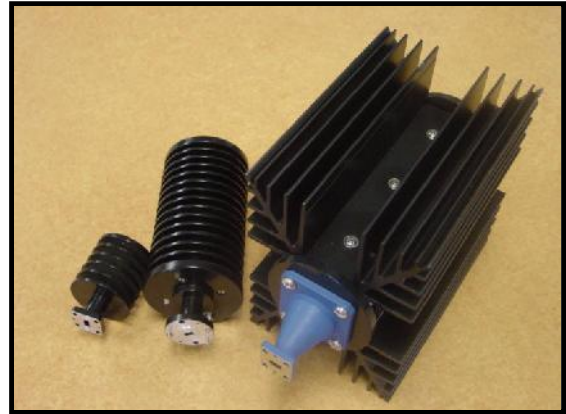
Broad Band High-Power Air-Cooled Loads

FEATURES

- ❖ Frequency Range: 1.70-170GHz
- ❖ Low VSWR
- ❖ Power Rating: 50-2500W (CW)
- ❖ Operating Temperature Range: -55 to+65°C

APPLICATIONS

- ❖ Broadcasting
- ❖ Defense
- ❖ Radar Communication



CWL SERIES

DESCRIPTION

Cernexwave's CWL Series air-cooled loads have great reliability and need minimum maintenance. The power rating is for free-air natural convection and increased by 30-50% if forced-air cooling is used. The loads are capable of operating at the rated power detailed in the table over the temperature range -55°C to +65°C.

Model No.	Waveguide	Frequency Range (GHz)	VSWR (max)	Power Rating (CW)
CWL43050	WR430	1.70 - 2.60	1.15:1	50
CWL430100	WR430	1.70 - 2.60	1.15:1	100
CWL430250	WR430	1.70 - 2.60	1.15:1	250
CWL430500	WR430	1.70 - 2.60	1.15:1	500
CWL4301000	WR430	1.70 - 2.60	1.15:1	1000
CWL4301500	WR430	1.70 - 2.60	1.15:1	1500
CWL4302000	WR430	1.70 - 2.60	1.15:1	2000
CWL 4302500	WR430	1.70 - 2.60	1.15:1	2500
CWL34050	WR340	2.20 - 3.30	1.15:1	50
CWL340100	WR340	2.20 - 3.30	1.15:1	100
CWL340250	WR340	2.20 - 3.30	1.15:1	250
CWL340500	WR340	2.20 - 3.30	1.15:1	500
CWL3401000	WR340	2.20 - 3.30	1.15:1	1000
CWL3401500	WR340	2.20 - 3.30	1.15:1	1500
CWL3402000	WR340	2.20 - 3.30	1.15:1	2000
CWL 3402500	WR340	2.20 - 3.30	1.15:1	2500
CWL28450	WR284	2.6 - 3.95	1.15:1	50



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Model No.	Waveguide	Frequency Range (GHz)	VSWR (max)	Power Rating (CW)
CWL284100	WR284	2.6 - 3.95	1.15:1	100
CWL284250	WR284	2.6 - 3.95	1.15:1	250
CWL284500	WR284	2.6 - 3.95	1.15:1	500
CWL2841000	WR284	2.6 - 3.95	1.15:1	1000
CWL2841500	WR284	2.6 - 3.95	1.15:1	1500
CWL2842000	WR284	2.6 - 3.95	1.15:1	2000
CWL2842500	WR284	2.6 - 3.95	1.15:1	2500
CWL22950	WR229	3.3 - 4.90	1.15:1	50
CWL229100	WR229	3.3 - 4.90	1.15:1	100
CWL229250	WR229	3.3 - 4.90	1.15:1	250
CWL229500	WR229	3.3 - 4.90	1.15:1	500
CWL2291000	WR229	3.3 - 4.90	1.15:1	1000
CWL2291500	WR229	3.3 - 4.90	1.15:1	1500
CWL2292000	WR229	3.3 - 4.90	1.15:1	2000
CWL2292500	WR229	3.3 - 4.90	1.15:1	2500
CWL18750	WR187	3.95 - 5.85	1.15:1	50
CWL187100	WR187	3.95 - 5.85	1.15:1	100
CWL187250	WR187	3.95 - 5.85	1.15:1	250
CWL187500	WR187	3.95 - 5.85	1.15:1	500
CWL1871000	WR187	3.95 - 5.85	1.15:1	1000
CWL1871500	WR187	3.95 - 5.85	1.15:1	1500
CWL1872000	WR187	3.95 - 5.85	1.15:1	2000
CWL1872500	WR187	3.95 - 5.85	1.15:1	2500
CWL15950	WR159	4.9 - 7.05	1.15:1	50
CWL159100	WR159	4.9 - 7.05	1.15:1	100
CWL159250	WR159	4.9 - 7.05	1.15:1	250
CWL159500	WR159	4.9 - 7.05	1.15:1	500
CWL1591000	WR159	4.9 - 7.05	1.15:1	1000
CWL1591500	WR159	4.9 - 7.05	1.15:1	1500
CWL1592000	WR159	4.9 - 7.05	1.15:1	2000
CWL1592500	WR159	4.9 - 7.05	1.15:1	2500
CWL13750	WR137	5.85 - 8.2	1.15:1	50



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Model No.	Waveguide	Frequency Range (GHz)	VSWR (max)	Power Rating (CW)
CWL137100	WR137	5.85 - 8.2	1.15:1	100
CWL137250	WR137	5.85 - 8.2	1.15:1	250
CWL137500	WR137	5.85 - 8.2	1.15:1	500
CWL1371000	WR137	5.85 - 8.2	1.15:1	1000
CWL1371500	WR137	5.85 - 8.2	1.15:1	1500
CWL1372000	WR137	5.85 - 8.2	1.15:1	2000
CWL1372500	WR137	5.85 - 8.2	1.15:1	2500
CWL11250	WR112	7.05 - 10	1.15:1	50
CWL112100	WR112	7.05 - 10	1.15:1	100
CWL112250	WR112	7.05 - 10	1.15:1	250
CWL112500	WR112	7.05 - 10	1.15:1	500
CWL1121000	WR112	7.05 - 10	1.15:1	1000
CWL1121500	WR112	7.05 - 10	1.15:1	1500
CWL1122000	WR112	7.05 - 10	1.15:1	2000
CWL1122500	WR112	7.05 - 10	1.15:1	2500
CWL9010	WR90	8.2 - 12.4	1.25:1	10
CWL9025	WR90	8.2 - 12.4	1.25:1	25
CWL9050	WR90	8.2 - 12.4	1.25:1	50
CWL90100	WR90	8.2 - 12.4	1.25:1	100
CWL90250	WR90	8.2 - 12.4	1.25:1	250
CWL90500	WR90	8.2 - 12.4	1.25:1	500
CWL901000	WR90	8.2 - 12.4	1.25:1	1000
CWL901500	WR90	8.2 - 12.4	1.25:1	1500
CWL902000	WR90	8.2 - 12.4	1.25:1	2000
CWL902500	WR90	8.2 - 12.4	1.25:1	2500
CWL7510	WR75	10 - 15	1.15:1	10
CWL7525	WR75	10 - 15	1.15:1	25
CWL7550	WR75	10 - 15	1.15:1	50
CWL75250	WR75	10 - 15	1.15:1	250
CWL75500	WR75	10 - 15	1.15:1	500
CWL751000	WR75	10 - 15	1.15:1	1000
CWL751500	WR75	10 - 15	1.15:1	1500
CWL752000	WR75	10 - 15	1.15:1	2000
CWL752500	WR75	10 - 15	1.15:1	2500



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Model No.	Waveguide	Frequency Range (GHz)	VSWR (max)	Power Rating (CW)
CWL6210	WR62	12 - 18	1.15:1	10
CWL6225	WR62	12 - 18	1.15:1	25
CWL6250	WR62	12 - 18	1.15:1	50
CWL62100	WR62	12 - 18	1.15:1	100
CWL62250	WR62	12 - 18	1.15:1	250
CWL62500	WR62	12 - 18	1.15:1	500
CWL621000	WR62	12 - 18	1.15:1	1000
CWL621500	WR62	12 - 18	1.15:1	1500
CWL622000	WR62	12 - 18	1.15:1	2000
CWL5110	WR51	15 - 22.9	1.15:1	10
CWL5125	WR51	15 - 22.9	1.15:1	25
CWL5150	WR51	15 - 22.9	1.15:1	50
CWL51100	WR51	15 - 22.9	1.15:1	100
CWL51250	WR51	15 - 22.9	1.15:1	250
CWL51500	WR51	15 - 22.9	1.15:1	500
CWL511000	WR51	15 - 22.9	1.15:1	1000
CWL4201	WR42	18 - 26.5	1.06:1	1
CWL4210	WR42	18 - 26.5	1.15:1	10
CWL4225	WR42	18 - 26.5	1.15:1	25
CWL4250	WR42	18 - 26.5	1.15:1	50
CWL42100	WR42	18 - 26.5	1.15:1	100
CWL42250	WR42	18 - 26.5	1.15:1	250
CWL42500	WR42	18 - 26.5	1.15:1	500
CWL421000	WR42	18 - 26.5	1.15:1	1000
CWL3401	WR34	22 - 33	1.06:1	1
CWL2801	WR28	26.5 - 40	1.06:1	1
CWL2805	WR28	26.5 - 40	1.15:1	5
CWL2810	WR28	26.5 - 40	1.15:1	10
CWL2825	WR28	26.5 - 40	1.15:1	25
CWL2850	WR28	26.5 - 40	1.15:1	50
CWL28100	WR28	26.5 - 40	1.15:1	100
CWL28200	WR28	26.5 - 40	1.15:1	200
CWL28500	WR28	26.5 - 40	1.15:1	500
CWL281000	WR28	26.5 - 40	1.15:1	1000



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Model No.	Waveguide	Frequency Range (GHz)	VSWR (max)	Power Rating (CW)
CWL2201	WR22	33 - 50	1.06:1	1
CWL2205	WR22	33 - 50	1.15:1	5
CWL2210	WR22	33 - 50	1.15:1	10
CWL2225	WR22	33 - 50	1.15:1	25
CWL2250	WR22	33 - 50	1.15:1	50
CWL22100	WR22	33 - 50	1.15:1	100
CWL22200	WR22	33 - 50	1.15:1	200
CWL22500	WR22	33 - 50	1.15:1	500
CWL1901	WR19	40 - 60	1.07:1	1
CWL1905	WR19	40 - 60	1.15:1	5
CWL1910	WR19	40 - 60	1.15:1	10
CWL1925	WR19	40 - 60	1.15:1	25
CWL1950	WR19	40 - 60	1.15:1	50
CWL19100	WR19	40 - 60	1.15:1	100
CWL19200	WR19	40 - 60	1.15:1	200
CWL19500	WR19	40 - 60	1.15:1	500
CWL1501	WR15	50 - 75	1.07:1	1
CWL1505	WR15	50 - 75	1.15:1	5
CWL1510	WR15	50 - 75	1.15:1	10
CWL1525	WR15	50 - 75	1.15:1	25
CWL1550	WR15	50 - 75	1.15:1	50
CWL15100	WR15	50 - 75	1.15:1	100
CWL15200	WR15	50 - 75	1.15:1	200
CWL15500	WR15	50 - 75	1.15:1	500
CWL1201	WR12	60 - 90	1.07:1	1
CWL1205	WR12	60 - 90	1.15:1	5
CWL1210	WR12	60 - 90	1.15:1	10
CWL1225	WR12	60 - 90	1.15:1	25
CWL1250	WR12	60 - 90	1.15:1	50
CWL12100	WR12	60 - 90	1.15:1	100
CWL12200	WR12	60 - 90	1.15:1	200
CWL12500	WR12	60 - 90	1.15:1	500
CWL1001	WR10	75 - 110	1.08:1	1
CWL1005	WR10	75 - 110	1.15:1	5



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Model No.	Waveguide	Frequency Range (GHz)	VSWR (max)	Power Rating (CW)
CWL1010	WR10	75 - 110	1.15:1	10
CWL1025	WR10	75 - 110	1.15:1	25
CWL1050	WR10	75 - 110	1.15:1	50
CWL10100	WR10	75 - 110	1.15:1	100
CWL10200	WR10	75 - 110	1.15:1	200
CWL10500	WR10	75 - 110	1.15:1	500

OTHER FREQUENCIES AND POWER LEVELS ARE ALSO AVAILABLE. COAXIAL POWER LOADS ARE ALSO AVAILABLE.

HOW TO ORDER

Specify Model Number

CWL – (WG) – (PP) – XX

WG = Waveguide Size

PP = Power in Watts

XX = to be specified by factory

Example: To order a WR28 Power Load with a frequency range of 26.5 - 40GHz, and a power handling of 50W, Specify CWL - 2850 - XX.

CERNEXWAVE RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE