

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



CWL

DESCRIPTION:

Cernex'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.

SPECIFICATIONS:

Model No.	Waveguide	Frequency Range (GHz)	VSWR	Power Rating (CW)
CWL28450X	WR284	2.6-3.95	1.15:1	50
CWL284100X	WR284	2.6-3.95	1.15:1	100
CWL284250X	WR284	2.6-3.95	1.15:1	250
CWL284500X	WR284	2.6-3.95	1.15:1	500
CWL2841000X	WR284	2.6-3.95	1.15:1	1000
CWL2841000	WR284	2.6-3.95	1.08	1000
CWL2842000X	WR284	2.6-3.95	1.15:1	2000
CWL2842000	WR284	2.6-3.95	1.08	2000
CWL2842500X	WR284	2.6-3.95	1.15:1	2500
CWL2842500	WR284	2.6-3.95	1.08	2500
CWL22950X	WR229	3.3-4.90	1.15:1	50
CWL229100X	WR229	3.3-4.90	1.15:1	100
CWL229250X	WR229	3.3-4.90	1.15:1	250
CWL229500X	WR229	3.3-4.90	1.15:1	500
CWL2291000X	WR229	3.3-4.90	1.15:1	1000
CWL2291000	WR229	3.3-4.90	1.08	1000
CWL2292000X	WR229	3.3-4.90	1.15:1	2000
CWL2292000	WR229	3.3-4.90	1.08	2000

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CWL2292500X	WR229	3.3-4.90	1.15:1	2500
CWL2292500	WR229	3.3-4.90	1.08	2500
CWL18750X	WR187	3.95-5.85	1.15:1	50
CWL187100X	WR187	3.95-5.85	1.15:1	100
CWL187250X	WR187	3.95-5.85	1.15:1	250
CWL187500X	WR187	3.95-5.85	1.15:1	500
CWL1871000X	WR187	3.95-5.85	1.15:1	1000
CWL1871000	WR187	3.95-5.85	1.08	1000
CWL1872000X	WR187	3.95-5.85	1.15:1	2000
CWL1872000	WR187	3.95-5.85	1.08	2000
CWL15950X	WR159	4.9-7.05	1.15:1	50
CWL159100X	WR159	4.9-7.05	1.15:1	100
CWL159250X	WR159	4.9-7.05	1.15:1	250
CWL159500X	WR159	4.9-7.05	1.15:1	500
CWL1591000X	WR159	4.9-7.05	1.15:1	1000
CWL1591000	WR159	4.9-7.05	1.08	1000
CWL1592000X	WR159	4.9-7.05	1.15:1	2000
CWL1592000	WR159	4.9-7.05	1.08	2000
CWL13750X	WR137	5.85-8.2	1.15:1	50
CWL137100X	WR137	5.85-8.2	1.15:1	100
CWL137250X	WR137	5.85-8.2	1.15:1	250
CWL137500X	WR137	5.85-8.2	1.15:1	500
CWL1371000X	WR137	5.85-8.2	1.15:1	1000
CWL1371000	WR137	5.85-8.2	1.08	1000
CWL1372000X	WR137	5.85-8.2	1.15:1	2000
CWL1372000	WR137	5.85-8.2	1.08	2000
CWL11250X	WR112	7.05-10	1.15:1	50
CWL112100X	WR112	7.05-10	1.15:1	100
CWL112250X	WR112	7.05-10	1.15:1	250
CWL112500X	WR112	7.05-10	1.15:1	500
CWL1121000X	WR112	7.05-10	1.15:1	1000
CWL1121000	WR112	7.05-10	1.08	1000
CWL1122000X	WR112	7.05-10	1.15:1	2000
CWL1122000	WR112	7.05-10	1.08	2000
CWL9050X	WR90	8.2 - 12.4	1.15:1	50
CWL90100X	WR90	8.2 - 12.4	1.15:1	100
CWL90250X	WR90	8.2- 12.4	1.15:1	250

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CWL90500X	WR90	8.2 - 12.4	1.15:1	500
CWL901000X	WR90	8.2 - 12.4	1.15:1	1000
CWL901000	WR90	8.2 - 12.4	1.08	1000
CWL7550X	WR75	10-15	1.15:1	50
CWL75250X	WR75	10-15	1.15:1	250
CWL75500X	WR75	10-15	1.15:1	500
CWL751000X	WR75	10-15	1.15:1	1000
CWL6250X	WR62	12-18	1.15:1	50
CWL62250X	WR62	12-18	1.15:1	250
CWL62500X	WR62	12-18	1.15:1	500
CWL621000X	WR62	12-18	1.15:1	1000
CWL5150X	WR51	15-22.9	1.15:1	50
CWL51250X	WR51	15-22.9	1.15:1	250
CWL51500X	WR51	15-22.9	1.15:1	500
CWL511000X	WR51	15-22.9	1.15:1	1000
CWL4250X	WR42	18-26.5	1.15:1	50
CWL42250X	WR42	18-26.5	1.15:1	250
CWL42500X	WR42	18-26.5	1.15:1	500
CWL421000X	WR42	18-26.5	1.15:1	1000
CWL2810X	WR28	26.5 - 40	1.15:1	10
CWL2810	WR28	26.5 - 40	1.08	10
CWL2825X	WR28	26.5-40	1.15:1	25
CWL2850X	WR28	26.5-40	1.15:1	50
CWL28100X	WR28	26.5 - 40	1.15:1	100
CWL28100	WR28	26.5 - 40	1.08	100
CWL28200X	WR28	26.5 - 40	1.15:1	200
CWL28200	WR28	26.5 - 40	1.08	200
CWL28500X	WR28	26.5 - 40	1.15:1	500
CWL28500	WR28	26.5 - 40	1.08	500
CWL281000X	WR28	26.5 - 40	1.15:1	1000
CWL281000	WR28	26.5 - 40	1.08	1000
CWL2210X	WR22	33 - 50	1.15:1	10
CWL2210	WR22	33 -50	1.08	10
CWL22100X	WR22	33 - 50	1.15:1	100
CWL22100	WR22	33 - 50	1.08	100
CWL22200X	WR22	33 - 50	1.15:1	200
CWL22200	WR22	33 - 50	1.08	200

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Model No.	Waveguide	Frequency Range (GHz)	VSWR	Power Rating (CW)
CWL22500X	WR22	33 - 50	1.15:1	500
CWL22500	WR22	33 - 50	1.08	500
CWL1910X	WR19	40 - 60	1.15:1	10
CWL1910	WR19	40 - 60	1.08	10
CWL19100X	WR19	40 - 60	1.15:1	100
CWL19100	WR19	40 - 60	1.08	100
CWL19200X	WR19	40 - 60	1.15:1	200
CWL19200	WR19	40 - 60	1.08	200
CWL19500X	WR19	40 - 60	1.15:1	500
CWL19500	WR19	40 - 60	1.08	500
CWL1510X	WR15	50 - 75	1.15:1	10
CWL1510	WR15	50 - 75	1.08	10
CWL15100X	WR15	50 - 75	1.15:1	100
CWL15100	WR15	50 - 75	1.08	100
CWL15200X	WR15	50 - 75	1.15:1	200
CWL15200	WR15	50 - 75	1.08	200
CWL15500X	WR15	50 - 75	1.15:1	500
CWL15500	WR15	50 - 75	1.08	500
CWL12100X	WR12	60 - 90	1.15:1	100
CWL12100	WR12	60 - 90	1.08	100
CWL12200X	WR12	60 - 90	1.15:1	200
CWL12200	WR12	60 - 90	1.08	200
CWL12500X	WR12	60 - 90	1.15:1	500
CWL12500	WR12	60 - 90	1.08	500
CWL1010X	WR10	75 - 110	1.15:1	10
CWL1010	WR10	75 - 110	1.08	10
CWL10100X	WR10	75 - 110	1.15:1	100
CWL10100	WR10	75 - 110	1.08	100
CWL10200X	WR10	75 - 110	1.15:1	200
CWL10200	WR10	75 - 110	1.08	200
CWL10500X	WR10	75 - 110	1.15:1	500
CWL10500	WR10	75 - 110	1.08	500
CWL0810	WR08	90 - 140	1.08	10
CWL08100	WR08	90 - 140	1.08	100
CWL08200	WR08	90 - 140	1.08	200
CWL08500	WR08	90 - 140	1.08	500
CWL0610	WR06	110-170	1.08	10

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Model No.	Waveguide	Frequency Range (GHz)	VSWR	Power Rating (CW)
CWL06100	WR06	110-170	1.08	100
CWL06200	WR06	110-170	1.08	200
CWL06500	WR06	110-170	1.08	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 ← To be specified by the factory

High End Frequency

Power in Watts

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.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE