





**RF COAXIAL TERMINATIONS**



SMA-50JR		
	Characteristic Impedance	50 $\Omega$
	Frequency range	0~18GHz
	VSWR	$\leq 1.25$
	Power capacity	1 W

SMA-50KR		
	Characteristic Impedance	50 $\Omega$
	Frequency range	0~18GHz
	VSWR	$\leq 1.25$
	Power capacity	1 W


SMA-50JR2		
	Characteristic Impedance	50 $\Omega$
	Frequency range	0~12GHz
	VSWR	$\leq 1.30$
	Power capacity	2 W

SMA-50JR5		
	Characteristic Impedance	50 $\Omega$
	Frequency range	0~8GHz
	VSWR	$\leq 1.30$
	Power capacity	5 W


# RF COAXIAL TERMINATIONS

**CERNEX, Inc.**


N-50JR

	Characteristic Impedance	50 Ω
	Frequency range	0~18GHz
	VSWR	≤1.25
	Power capacity	1 W


N-50JR5

	Characteristic Impedance	50 Ω
	Frequency range	0~8GHz
	VSWR	≤1.30
	Power capacity	5 W


BNC-50JR

	Characteristic Impedance	50 Ω
	Frequency range	0~3GHz
	VSWR	≤1.25
	Power capacity	2 W


BNC-50KR

	Characteristic Impedance	50 Ω
	Frequency range	0~3GHz
	VSWR	≤1.25
	Power capacity	2 W


BNC-75JR

	Characteristic Impedance	75 Ω
	Frequency range	0~1GHz
	VSWR	≤1.25
	Power capacity	2 W


BNC-75KR

	Characteristic Impedance	75 Ω
	Frequency range	0~1GHz
	VSWR	≤1.25
	Power capacity	2 W


TNC-50JR

	Characteristic Impedance	50 Ω
	Frequency range	0~12GHz
	VSWR	≤1.25
	Power capacity	1 W


TNC-50KR

	Characteristic Impedance	50 Ω
	Frequency range	0~12GHz
	VSWR	≤1.25
	Power capacity	1 W

TNC-50JR2

	Characteristic Impedance	50 Ω
	Frequency range	0~12GHz
	VSWR	≤1.25
	Power capacity	2 W

TNC-50KR2

	Characteristic Impedance	50 Ω
	Frequency range	0~12GHz
	VSWR	≤1.25
	Power capacity	2 W



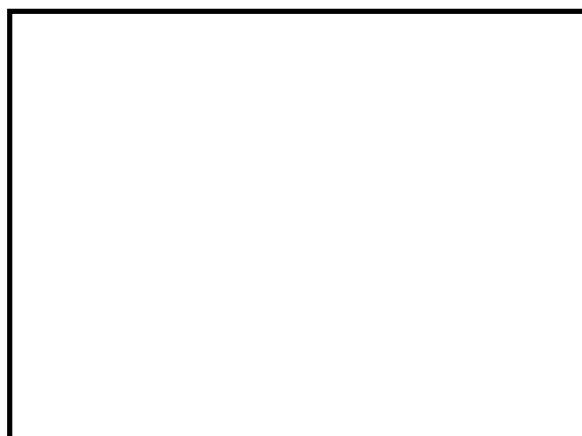
## Sliding Matched Terminations

### FEATURES:

- ❖ Low VSWR
- ❖ Precision Adjustment

### APPLICATIONS:

- ❖ Test setup
- ❖ Directivity Measurement



### CST Series

### DESCRIPTION:

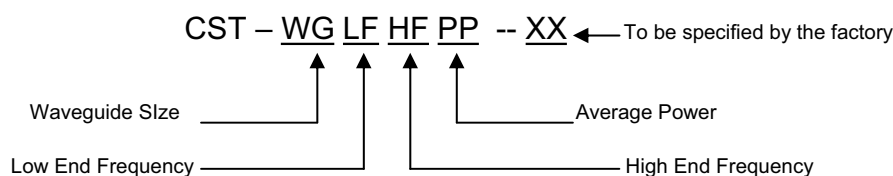
Cernex's CST series sliding matched load consists of a precision-tapered waveguide load coupled to a micrometer drive. The load is machined to precise tolerances to permit the close fit necessary for sliding without binding.

### SPECIFICATIONS:

Waveguide Band	Ku	K	Ka	Q	U	V	E	W	F	D	G
Waveguide Size	WR-62	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10	WR-8	WR-7	WR-5
Frequency Range (GHz)	12.4 to 18.0	18 to 26.5	26.5 to 40	33 to 50	40 to 60	50 to 75	60 to 90	75 to 110	90 to 140	110 to 170	140 to 220
VSWR Max.	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.08	1.08	1.08	1.10
Average Power (dbm)	30	30	30	28.5	25	25	25	23	20	20	20

### HOW TO ORDER:

Specify Model Number



**Example:** To order WR-15 sliding matched terminations with a frequency band of 50-75GHz, and an average power of 25dbm, specify CST-15507525-XX.

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# CERNEX, Inc.

## Terminations & Loads (Coaxial)

### FEATURES:

- ❖ Frequency Range: DC-18GHz
- ❖ Low VSWR
- ❖ Power Rating: 1-1000W
- ❖ Rugged Construction



CCL Series

### SPECIFICATIONS:

Model No.	Frequency Range (GHz)	VSWR (Max)	Power (W)	Size LXWXH (mm)	Connector Type
CCLDC0180S	DC-1.0	1.10	80	110X70X48	N
CCLDC0210S	DC-2.0	1.15	10	70X32X32	N
CCLDC0230S	DC-2.0	1.10	30	65X70X70	N
CCLDC02100T	DC-2.0	1.20	100	76X86X215	N
CCLDC02150T	DC-2.0	1.20	150	115X86X262	N
CCLDC02200T	DC-2.0	1.20	200	115X86X262	N
CCLDC02250T	DC-2.0	1.20	250	132X140X337	N
CCLDC02300T	DC-2.0	1.20	300	132X140X337	N
CCLDC02400T	DC-2.0	1.20	400	132X140X422	N
CCLDC02500T	DC-2.0	1.20	500	132X140X422	N
CCLDC021000T	DC-2.0	1.20	1000	152X260X647	N
CCLDC0250S	DC-2.5	1.15	50	65X70X70	N
CCLDC0250T1	DC-2.5	1.25	50	76X86X155	N
CCLDC0250T2	DC-2.5	1.35	50	84X40X36	N
CCLDC0260S	DC-2.5	1.15	60	110X70X48	N
CCLDC0310S	DC-3.0	1.20	10	70X32X32	N
CCLDC0330S	DC-3.0	1.15	30	65X70X70	N
CCLDC0350TM	DC-3.0	1.20	50	-	SMA/N/TNC
CCLDC03100TM	DC-3.0	1.30	100	-	N/TNC
CCLDC04100T	DC-4.0	1.35	100	76X86X215	N
CCLDC04150T	DC-4.0	1.35	150	115X86X262	N
CCLDC04200T	DC-4.0	1.35	200	115X86X262	N
CCLDC04250T	DC-4.0	1.35	250	132X140X337	N



## Terminations & Loads (Coaxial)

Model No.	Frequency Range (GHz)	VSWR (Max)	Power (W)	Size LXWXH (mm)	Connector Type
CCLDC04300T	DC-4.0	1.35	300	132X140X337	N
CCLDC04400T	DC-4.0	1.35	400	132X140X422	N
CCLDC04500T	DC-4.0	1.35	500	132X140X422	N
CCLDC041000T	DC-4.0	1.35	1000	152X260X647	N
CCLDC0830TM	DC-8.0	1.20	30	-	SMA/N/TNC
CCLDC0840TM	DC-8.0	1.20	40	-	SMA/N/TNC
CCLDC1805TM	DC-18.0	1.30	5	-	SMA/N/TNC
CCLDC1810TM	DC-18.0	1.35	10	-	SMA/N/TNC
CCLDC1820TM	DC-18.0	1.35	20	-	SMA/N/TNC
CCLU30450S	0.3-4.0	1.25	50	65X70X70	N
CCLU30460S	0.3-4.0	1.25	60	126X70X70	N
CCLU30480S	0.3-4.0	1.25	80	140X70X80	N

### TUBULAR:

Model No.	Frequency Range (GHz)	VSWR (Max)	Power (W)	Size LXWXH (mm)	Connector Type
CCLDC0105S	DC-1.0	1.08	5	Φ19 X 30	N
CCLDC0130S	DC-1.0	1.20	30	Φ28.5 X 38	N
CCLDC0160S	DC-1.0	1.15	60	Φ30 X 74	N
CCLDC0301S	DC-3.0	1.10	1	Φ7.8 X 11	SMA
CCLDC0302H	DC-3.0	1.20	2	Φ16 X 30.2	N
CCLDC0305S	DC-3.0	1.15	5	Φ19 X 30	N
CCLDC0305H	DC-3.0	1.20	5	Φ16 X 30.2	N
CCLDC0400T	DC-4.0	1.10	0.5	Φ8.5 X 9	SMA
CCLDC0401T	DC-4.0	1.10	1	Φ9 X 13	SMA
CCLDC0402T1	DC-4.0	1.10	2	Φ14 X 24	SMA
CCLDC0402T2	DC-4.0	1.10	2	Φ21 X 33	N
CCLDC0403T	DC-4.0	1.15	3	Φ26 X 39	N
CCLDC0450T1	DC-4.0	1.15	50	Φ50 X 100	N
CCLDC0450T2	DC-4.0	1.35	50	Φ50 X 100	N
CCLDC0601S	DC-6.0	1.15	1	Φ7.8 X 11	SMA
CCLDC0610T	DC-6.0	1.15	10	Φ32 X 60	N
CCLDC0615T	DC-6.0	1.20	15	Φ35 X 64	N
CCLDC0625T	DC-6.0	1.20	25	Φ40 X 64	N



## Terminations & Loads (Coaxial)

Model No.	Frequency Range (GHz)	VSWR (Max)	Power (W)	Size LXWXH (mm)	Connector Type
CCLDC0630T	DC-6.0	1.20	30	Φ40 X 64	N
CCLDC0801S	DC-8.0	1.20	1	Φ7.8 X 11	SMA
CCLDC0805T	DC-8.0	1.15	5	Φ27 X 52	N
CCLDC1201S	DC-12.0	1.25	1	Φ7.8 X 11	SMA
CCLDC1201T	DC-12.4	1.15	1	Φ9 X 13	SMA
CCLDC1202T1	DC-12.4	1.12	2	Φ21 X 44	N
CCLDC1202T2	DC-12.4	1.15	2	Φ14 X 24	SMA
CCLDC1205T	DC-12.4	1.30	5	Φ27 X 52	N
CCLDC1215T	DC-12.4	1.30	15	Φ35 X 64	N
CCLDC1225T	DC-12.4	1.30	25	Φ40 X 64	N
CCLDC1250T	DC-12.4	1.25	50	Φ50 X 100	N
CCLDC1801S	DC-18.0	1.30	1	Φ7.8 X 11	SMA
CCLDC1801T	DC-18.0	1.20	1	Φ9 X 13	SMA
CCLDC1802T1	DC-18.0	1.15	2	Φ21 X 44	N
CCLDC1802T2	DC-18.0	1.20	2	Φ14 X 24	SMA

OTHER FREQUENCIES AND POWER LEVELS ARE ALSO AVAILABLE.

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# CERNEX, Inc.

## 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