



Digital Control Attenuators

FEATURES:

- ❖ Frequency Range: DC-20GHz
- ❖ Available in binary 4 to 8 bits configuration
With 0.5dB resolution and up to 64dB total attenuation
- ❖ Precision, reliability and repeatability
- ❖ Economically Priced

APPLICATIONS:

- ❖ Automatic Gain Control
- ❖ Communications Systems
- ❖ Leveling Circuits
- ❖ Precision Test Equipment
- ❖ Electronic Simulators



CAD Series

SPECIFICATIONS:

Model Number	Frequency Range (GHz)	Bit	Insertion Loss (dB)	Attenuation Range (dB)	Flatness (dB)	Attenuation Accuracy (dB)	VSWR	Operating Temp. (°C)	Absolute Max. Voltage (V)	Case Type
CADDC130631H	DC – 13	6	4.0	31.5	-	± 0.5	1.8	-55 to +85	-5V	*
CADDC200515TY	DC – 20	5	1.9	15.5	-	± 0.15	1.6	-55 to +85	-8.5V	*
CADU1U50990	0.1-0.5	9	10.0	90	± 1.5	-	2.1	0 to +45	±15V	*
CADU5020460HE	0.5 – 2	4	2.0	60	-	± 0.5	1.3	-55 to +85	-	*
CADU5080560HE	0.5-8	5	3.5	60	-	± 0.5	2.0	-55 to +85	-	*
CADU5080616HE	0.5-8	6	4.0	16	-	± 1	2.0	-55 to +85	-	*
CADU5080764HE	0.5-8	7	6.5	64	-	± 1	2.0	-55 to +85	-	*
CADU5180516HE	0.5-18	5	5.0	16	-	± 1	2.0	-55 to +85	-	*
CADU5180515TR	0.5-18	5	4.0	15	-	-	1.6	-	0V	*
CAD01020732HE	1-2	7	1.4	32	± 1	± 0.5	1.5	-40 to +70	-	*
CAD01020764HE	1-2	7	1.4	64	± 1.5	± 1	1.5	-40 to +70	-	*
CAD01020663T	1-2	6	1.8	63	± 0.5	± 1	1.5	-10 to +60	-	*
CAD01020632HE	1-2	6	3.5	32	-	± 0.5	1.8	-55 to +85	-	*
CAD01020764HE	1-2	7	5.0	64	-	± 0.5	1.8	-55 to +85	-	*
CAD01180632HE	1-18	6	8.0	32	-	± 1	2.0	-55 to +85	-	*
CAD01180764HE	1-18	7	11.0	64	-	± 1.5	2.0	-55 to +85	-	*
CAD02040732HE	2-4	7	1.4	32	± 1	± 0.5	1.6	-40 to +70	-	*
CAD02040764HE	2-4	7	1.6	64	± 1.5	± 1	1.6	-40 to +70	-	*
CAD02040663T	2-4	6	1.8	63	± 0.5	± 1	1.5	-10 to +60	-	*
CAD02060632HE	2-6	6	3.8	32	-	± 1	2.0	-55 to +85	-	*
CAD02060764HE	2-6	7	6.0	64	-	± 1	2.0	-55 to +85	-	*
CAD02080460HE	2-8	4	5.0	60	-	± 1	1.8	-55 to +85	-	*
CAD02180460HE	2-18	4	9.0	60	-	± 1	2.0	-55 to +85	-	*

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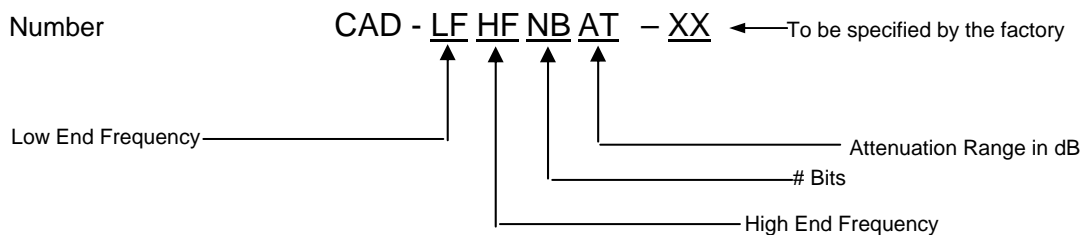
Model Number	Frequency Range (GHz)	Bit	Insertion Loss (dB)	Attenuation Range (dB)	Flatness (dB)	Attenuation Accuracy (dB)	VSWR	Operating Temp. (°C)	Absolute Max. Voltage (V)	Case Type
CAD02200523TY	2-20	5	4.0	23	-	-	1.4	-55 to +85	-6V	*
CAD02080631H	2.4 – 8	6	3.5	31.5	-	± 0.5	1.8	-55 to +85	+5V	*
CAD03030732HE	3.1-3.4	7	1.6	32	-	± 0.5	1.3	-40 to +70	-	*
CAD03030864HE	3.1-3.4	8	3.6	64	-	± 1	1.3	-40 to +70	-	*
CAD04080732HE	4-8	7	1.8	32	± 1	± 0.5	1.8	-40 to +70	-	*
CAD04080764HE	4-8	7	1.8	64	± 1.5	± 1	1.8	-40 to +70	-	*
CAD04080663T	4-8	6	2.2	63	± 0.5	± 1.5	1.5	-10 to +60	-	*
CAD05060580	5-6	5	12.0	80	-	-	1.7	-	±12	*
CAD05050732HE	5.4-5.8	7	1.8	32	-	± 0.5	1.4	-40 to +70	-	*
CAD05050864HE	5.4-5.8	8	3.8	64	-	± 1	1.4	-40 to +70	-	*
CAD08120732HE	8-12	7	2.0	32	± 0.75	± 0.5	1.5	-40 to +70	-	*
CAD08120764HE	8-12	7	2.0	64	± 1	± 1	1.5	-40 to +70	-	*
CAD08120663T	8-12	6	2.5	63	± 1	± 1.5	1.6	-10 to +60	-	*
CAD08180732HE	8-18	7	3.5	32	-	± 1	2.0	-40 to +70	-	*
CAD08180864HE	8-18	8	6.0	64	-	± 1	2.0	-40 to +70	-	*
CAD08180460HE	8-18	4	8.0	60	-	± 1	2.0	-55 to +85	-	*
CAD08180632HE	8-18	6	10.0	32	-	± 1.5	2.0	-55 to +85	-	*
CAD08180732HE	8-18	7	2.6	32	± 1	± 0.5	2.0	-40 to +60	-	*
CAD08180764HE	8-18	7	2.8	64	± 1.5	± 1	2.0	-40 to +60	-	*
CAD12180732HE	12-18	7	2.5	32	± 0.75	± 0.5	1.5	-40 to +70	-	*
CAD12180764HE	12-18	7	2.6	64	± 1	± 1	1.5	-40 to +70	-	*
CAD12180663T	12-18	6	3.0	63	± 0.5	± 1	1.5	-10 to +60	-	*

OTHER FREQUENCIES ARE ALSO AVAILABLE.

*CONSULT THE FACTORY

HOW TO ORDER:

Specify Model Number



Example: To order a CAD with Low End Frequency at 2.4GHz and High End Frequency at 8.0 GHz with 6-Bit at Attenuation Range 31.5dB , specify CAD02080631-XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE