

Pin Diode Switches (Reflective & Absorptive)

FEATURES:

- ❖ Switches with integral TTL drivers.
- ❖ Available from 0.05-110GHz
- ❖ Low Insertion Loss
- ❖ Single Throw Switches (SP1T) –6% bandwidth (10ns & 100ns)
- ❖ Double Throw Switches (SP2T)- 6% Bandwidth (10ns)

APPLICATIONS:

- ❖ Wave shaping
- ❖ Duplexing
- ❖ Pulse Modulation
- ❖ Signal Switching
- ❖ Receiver Protection



CXT Series

DESCRIPTION:

Cernex's CXT series PIN diode switches are reflective switches that combine low loss, high isolation performance with an integral TTL driver in a compact package. Various driver options are available. The switches are also available in higher isolation versions up to 100dB. These switches can also be supplied without drivers. Non reflective switches are also available.

SPECIFICATIONS:

C1T (SP1T): Reflective

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C1TDC060664TY	DC-6	1.6 typ.	60 typ.	2:1	*	*	*	*
C1TH1U20770Y	0.001-0.2	0.7	70	1.5:1	1000	1	*	26x16x12
C1TV2U51280T	0.02-0.5	1.2	80	1.5	100-500	1	*	*
C1TV2010970Y	0.02-1	0.9	70	1.5:1	100	1	*	26x16x12
C1TV2032060Y	0.02-3	2	60	1.7:1	100	1	*	26x16x12
C1TU5011380T	0.5-1	1.3	80	1.5	100	1	*	*
C1TU5041260Y	0.5-4	1.2	60	1.5	50	1	*	26x16x12
C1T01020880T	1-2	0.8	80	1.5	50	1	*	*
C1T02041280T	2-4	1.2	80	1.5	50	1	*	*
C1T02081760Y	2-8	1.7	60	2.0	50	1	*	26x16x12
C1T02182255T	2-18	2.2	55	2.2	50	1	*	*
C1T02183160Y	2-18	3.1	60	2.2	50	0.5	*	26x16x12
C1T04081560T	4-8	1.5	60	1.6	50	1	*	*
C1T06122360Y	6-12	2.3	60	2.0	50	1	*	26x16x12
C1T06183060Y	6-18	3.0	60	2.0	50	0.5	*	26x16x12
C1T08121860T	8-12	1.8	60	1.7	50	1	*	*
C1T12182260T	12-18	2.2	60	2.0	50	1	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

Pin Diode Switches

C2T (SP2T): Reflective

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C2TDC030435TY	DC-3	1.4 typ.	35 typ.	2:1	*	*	*	*
C2TH1U20870Y	0.001-0.2	0.8	70	1.5	1000	1	*	26x18x12
C2TV2U51380T	0.02-0.5	1.3	80	1.5	100-500	1	*	*
C2TV2011070Y	0.02-1	1.0	70	1.5	100	1	*	26x18x12
C2TV2032160Y	0.02-3	2.1	60	1.7	100	1	*	26x18x12
C2TU5011480T	0.5-1	1.4	80	1.5	100	0.2	*	*
C2TU5041460Y	0.5-4	1.4	60	1.5	50	1	*	26x18x12
C2TU8010427TQ	0.8-1.7	0.8 typ.	27 typ.	2:1	*	*	*	*
C2T01021080T	1-2	1.0	80	1.5	50	0.2	*	*
C2T02041380T	2-4	1.3	80	1.5	50	0.2	*	*
C2T02081860Y	2-8	1.8	60	2.0	50	1	*	26x18x12
C2T02080245TY	2-8	2 typ.	45 typ.	2:1	*	*	*	*
C2T02182460T	2-18	2.4	60	2.2	50	0.2	*	*
C2T02183260Y	2-18	3.2	60	2.2	50	0.5	*	26x18x12
C2T02200440TY	2-20	4 typ.	40 typ.	2:1	*	*	*	*
C2T02020628TQ	2.4-2.5	1 typ.	28 typ.	2:1	*	*	*	*
C2T04081660T	4-8	1.6	60	1.6	50	0.2	*	*
C2T05062080	5-6	2.0	70	1.5:1	100	*	20mA/±5V	SW2-2
C2T06122560Y	6-12	2.5	60	2.0	50	1	*	26x18x12
C2T06183160Y	6-18	3.1	60	2.0	50	0.5	*	26x18x12
C2T08122060T	8-12	2.0	60	1.7	50	0.2	*	*
C2T12182560T	12-18	2.5	60	2.0	50	0.2	*	*
C2T18263560	18.5-26	3.5	60	2.3	500	*	30mA/±5V	SW2-1
C2T24430236TQ	24-43	3 typ.	36 typ.	2.5:1typ.	*	*	*	*
C2T26404555	26.5-40	4.5	55	2.5	500	*	30mA/±5V	SW2-1
C2T27460927TQ	27-46	3 typ.	27 typ.	2:1 typ.	40	1	20mA/±5V	SW2-3
C2T32400935TQ	32-40	3 typ.	35 typ.	2:1 typ.	40	1	30mA/±5V	SW2-3
C2T34364040	34-36	4.0	40	2:1 typ.	300	1	30mA/±5	SW2-3
C2T50601530U	50-60	3.5 typ.	30 typ.	2:1 typ.	*	*	*	*
C2T55621530V	55-62	3.5 typ.	30 typ.	2:1 typ.	*	*	*	*
C2T70860330V	70-86	4.5 typ.	30 typ.	2:1 typ.	*	*	*	*
C2T74801224TY	74-80	4.5 typ.	24 typ.	2:1 typ.	*	*	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

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Pin Diode Switches

C3T (SP3T): Reflective

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C3TDC030527TY	DC-3	1.5 typ.	27 typ.	2:1	*	*	*	*
C3TH1U21070Y	0.001-0.2	1.0	70	1.5	1000	1	*	39x26x12
C3TV2U51480T	0.02-0.5	1.4	80	1.5	100-500	0.2-1	*	*
C3TV2011270Y	0.02-1	1.2	70	1.5	100	1	*	39x26x12
C3TV2032260Y	0.02-3	2.2	60	1.7	100	1	*	39x26x12
C3TU5011580T	0.5-1	1.5	80	1.5	100	0.2	*	*
C3TU5041560Y	0.5-4	1.5	60	1.5	50	1	*	39x26x12
C3TU8191528TQ	0.8-1.9	1.5 typ.	28 typ.	2:1	*	*	*	*
C3T01021280T	1-2	1.2	80	1.5	50	0.2	*	*
C3T02041380T	2-4	1.3	80	1.5	50	0.2	*	*
C3T02082060Y	2-8	2.0	60	2.0	50	1	*	39x26x12
C3T02183260Y	2-18	3.2	60	2.2	50	0.5	*	39x26x12
C3T02182560T	2-18	2.5	60	2.2	50	0.2	*	*
C3T04081760T	4-8	1.7	60	1.6	50	0.2	*	*
C3T06122760Y	6-12	2.7	60	2.0	50	1	*	39x26x12
C3T06183260Y	6-18	3.2	60	2.0	50	0.5	*	39x26x12
C3T08122060T	8-12	2.0	60	1.7	50	0.2	*	*
C3T12182660T	12-18	2.6	60	2.0	50	0.2	*	*
C3T70852540TQ	70-85	5 typ.	40 typ.	2:1	10	0.5	*	*
C3T74801424TY	74-80	5 typ.	24 typ.	2:1	*	*	*	*

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C4T (SP4T): Reflective

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C4TDC081842H	DC-8	2.5 typ.	42 typ.	2:1	*	*	*	*
C4TH1U21370Y	0.001-0.2	1.3	70	1.5	1000	1	*	52x26x12
C4TV2U51580T	0.02-0.5	1.5	80	1.5	100-500	0.2-1	*	*
C4TV2011470Y	0.02-1	1.4	70	1.5	100	1	*	52x26x12
C4TV2032460Y	0.02-3	2.4	60	1.7	100	1	*	52x26x12
C4TU5011680T	0.5-1	1.6	80	1.5	100	0.2	*	*
C4TU5021530TQ	0.5-2	1.5 typ.	30 typ.	2:1	*	*	*	*
C4TU5041860Y	0.5-4	1.8	60	1.5	50	1	*	52x26x12
C4T01021280T	1-2	1.2	80	1.5	50	0.2	*	*

Pin Diode Switches

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C4T02041480T	2-4	1.4	80	1.5	50	0.2	*	*
C4T02082260Y	2-8	2.2	60	2.0	50	1	*	52x26x12
C4T02182760T	2-18	2.7	60	2.2	50	0.2	*	*
C4T02183460Y	2-18	3.4	60	2.2	50	0.5	*	52x26x12
C4T04081860T	4-8	1.8	60	1.6	50	0.2	*	*
C4T06122960Y	6-12	2.9	60	2.0	50	1	*	52x26x12
C4T06183460Y	6-18	3.4	60	2.0	50	0.5	*	52x26x12
C4T08122160T	8-12	2.1	60	1.7	50	0.2	*	*
C4T12182860T	12-18	2.8	60	2.0	50	0.2	*	*
C4T22260340TY	22-26	3.0 typ.	40 typ.	2:1	*	*	*	*

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C5T (SP5T): Reflective

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C5TH1U21570Y	0.001-0.2	1.5	70	1.5	1000	1	*	65x26x12
C5TV2U51580T	0.02-0.5	1.5	80	1.5	100-500	0.2-1	*	*
C5TV2011670Y	0.02-1	1.6	70	1.5	100	1	*	65x26x12
C5TV2032660Y	0.02-3	2.6	60	1.7	100	1	*	65x26x12
C5TU5011680T	0.5-1	1.6	80	1.5	100	0.2	*	*
C5TU5042060Y	0.5-4	2.0	60	1.5	50	1	*	65x26x12
C5T01021380T	1-2	1.3	80	1.5	50	0.2	*	*
C5T02041580T	2-4	1.5	80	1.5	50	0.2	*	*
C5T02082460Y	2-8	2.4	60	2.0	50	1	*	65x26x12
C5T02181835TY	2-18	2.5 typ.	35 typ.	2:1	*	*	*	*
C5T02182860T	2-18	2.8	60	2.2	50	0.2	*	*
C5T02183560Y	2-18	3.5	60	2.2	50	0.5	*	65x26x12
C5T04081860T	4-8	1.8	60	1.6	50	0.2	*	*
C5T06123060Y	6-12	3.0	60	2.0	50	1	*	65x26x12
C5T06183560Y	6-18	3.5	60	2.0	50	0.5	*	65x26x12
C5T08122160T	8-12	2.1	60	1.7	50	0.2	*	*
C5T12182960T	12-18	2.9	60	2.0	50	0.2	*	*
C5T75790424TY	75-79	6.0 typ.	24 typ.	2:1 typ	*	*	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

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Pin Diode Switches

C6T (SP6T): Reflective

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C6TH1U21570Y	0.001-0.2	1.5	70	1.5	1000	1	*	78x32x12
C6TV2U51680T	0.02-0.5	1.6	80	1.5	100-500	0.2-1	*	*
C6TV2011670Y	0.02-1	1.6	70	1.5	100	1	*	78x32x12
C6TV2032660Y	0.02-3	2.6	60	1.7	100	1	*	78x32x12
C6TU5011780T	0.5-1	1.7	80	1.5	100	0.2	*	*
C6TU5020545TY	0.5-2.5	1.5 typ.	45 typ.	2:1	*	*	*	*
C6TU5042060Y	0.5-4	2.0	60	1.5	50	1	*	78x32x12
C6T01021480T	1-2	1.4	80	1.5	50	0.2	*	*
C6T02041680T	2-4	1.6	80	1.5	50	0.2	*	*
C6T02082460Y	2-8	2.4	60	2.0	50	1	*	78x32x12
C6T02181935TY	2-18	2.8 typ.	35 typ.	2:1	*	*	*	*
C6T02183060T	2-18	3.0	60	2.2	50	0.2	*	*
C6T02183560Y	2-18	3.5	60	2.2	50	0.5	*	78x32x12
C6T04082060T	4-8	2.0	60	1.6	50	0.2	*	*
C6T06123060Y	6-12	3.0	60	2.0	50	1	*	78x32x12
C6T06183560Y	6-18	3.5	60	2.0	50	0.5	*	78x32x12
C6T08122360T	8-12	2.3	60	1.7	50	0.2	*	*
C6T12183260T	12-18	3.2	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

C7T (SP7T): Reflective

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C7TH1U21770Y	0.001-0.2	1.7	70	1.5	1000	1	*	105x42x12
C7TV2U51780T	0.02-0.5	1.7	80	1.5	100-500	0.2-1	*	*
C7TV2011870Y	0.02-1	1.8	70	1.5	100	1	*	105x42x12
C7TV2032860Y	0.02-3	2.8	60	1.7	100	1	*	105x42x12
C7TU5011880T	0.5-1	1.8	80	1.5	100	0.2	*	*
C7TU5042060Y	0.5-4	2.0	60	1.5	50	1	*	105x42x12
C7T01021480T	1-2	1.4	80	1.5	50	0.2	*	*
C7T02041680T	2-4	1.6	80	1.5	50	0.2	*	*
C7T02082460Y	2-8	2.4	60	2.0	50	1	*	105x42x12
C7T02183260T	2-18	3.2	60	2.2	50	0.2	*	*

Pin Diode Switches

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C7T02183560Y	2-18	3.5	60	2.2	50	0.5	*	105x42x12
C7T04082060T	4-8	2.0	60	1.6	50	0.2	*	*
C7T06123060Y	6-12	3.0	60	2.0	50	1	*	105x42x12
C7T06183560Y	6-18	3.5	60	2.0	50	0.5	*	105x42x12
C7T08122560T	8-12	2.5	60	1.7	50	0.2	*	*
C7T12183360T	12-18	3.3	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

C8T (SP8T): Reflective

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C8TDC100238H	DC-10	3.0 typ.	38 typ.	*	*	*	*	*
C8TH1U21770Y	0.001-0.2	1.7	70	1.5	1000	1	*	110x42x16
C8TV2U51780T	0.02-0.5	1.7	80	1.5	100-500	0.2-1	*	*
C8TV2011870Y	0.02-1	1.8	70	1.5	100	1	*	110x42x16
C8TV2033060Y	0.02-3	3.0	60	1.7	100	1	*	110x42x16
C8TU5011880T	0.5-1	1.8	80	1.5	100	0.2	*	*
C8TU5042060Y	0.5-4	2.0	60	1.5	50	1	*	110x42x16
C8T01021480T	1-2	1.4	80	1.5	50	0.2	*	*
C8T02041780T	2-4	1.7	80	1.5	50	0.2	*	*
C8T02082460Y	2-8	2.4	60	2.0	50	1	*	110x42x16
C8T02183760Y	2-18	3.7	60	2.2	50	0.5	*	110x42x16
C8T02184060T	2-18	4.0	60	2.2	50	0.2	*	*
C8T04082260T	4-8	2.2	60	1.6	50	0.2	*	*
C8T06123060Y	6-12	3.0	60	2.0	50	1	*	110x42x16
C8T06183760Y	6-18	3.7	60	2.0	50	0.5	*	110x42x16

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

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Pin Diode Switches

C1T (SP1T): Absorptive

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W) Max.	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C1TH1U21370Y	0.001-0.2	1.3	70	1.5	1000	1	*	26x16x12
C1TV2U51480T	0.02-0.5	1.4	80	1.5	100-500	0.2-1	*	*
C1TV2011570Y	0.02-1	1.5	70	1.5	100	1	*	26x16x12
C1TV2032460Y	0.02-3	2.4	60	1.7	100	1	*	26x16x12
C1TV2032460T	0.02-3	2.4	60	2.0	200	0.2	*	*
C1TU5011580T	0.5-1	1.5	80	1.5	100	0.2	*	*
C1TU5041660Y	0.5-4	1.6	60	1.5	50	1	*	26x16x12
C1T01021080T	1-2	1.0	80	1.5	50	0.2	*	*
C1T02042060T	2-4	2.0	60	1.6	50	0.2	*	*
C1T02082060Y	2-8	2.0	60	2.0	50	1	*	26x16x12
C1T02183160T	2-18	3.1	60	2.2	50	0.2	*	*
C1T02183260Y	2-18	3.2	60	2.2	50	0.5	*	26x16x12
C1T06122560Y	6-12	2.5	60	2.0	50	1	*	26x16x12
C1T06183260Y	6-18	3.2	60	2.0	50	1	*	26x16x12
C1T08122560T	8-12	2.5	60	1.5	50	0.2-2	*	*
C1T12183260T	12-18	3.2	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

C2T (SP2T): Absorptive

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C2TH1U21370Y	0.001-0.2	1.3	70	1.5	1000	1	*	26x18x12
C2TV2U51580T	0.02-0.5	1.5	80	1.5	100-500	0.2-1	*	*
C2TV2011570Y	0.02-1	1.5	70	1.5	100	1	*	26x18x12
C2TV2032460Y	0.02-3	2.4	60	1.7	100	1	*	26x18x12
C2TV2032560T	0.02-3	2.5	60	2.0	200	0.2	*	*
C2TU5011680T	0.5-1	1.6	80	1.5	100	0.2	*	*
C2TU5041660Y	0.5-4	1.6	60	1.5	50	1	*	26x18x12
C2T01021280T	1-2	1.2	80	1.5	50	0.2	*	*
C2T02042060T	2-4	2.0	60	1.6	50	0.2	*	*
C2T02082060Y	2-8	2.0	60	2.0	50	1	*	26x18x12
C2T02183260T	2-18	3.2	60	2.2	50	0.2	*	*
C2T02183260Y	2-18	3.2	60	2.2	50	0.5	*	26x18x12

Pin Diode Switches

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C2T06122560Y	6-12	2.5	60	2.0	50	1	*	26x18x12
C2T06183260Y	6-18	3.2	60	2.0	50	0.5	*	26x18x12
C2T08122660T	8-12	2.6	60	1.5	50	0.2	*	*
C2T12183260T	12-18	3.2	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

C3T (SP3T): Absorptive

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C3TH1U21570Y	0.001-0.2	1.5	70	1.5	1000	1	*	39x26x12
C3TV2U51580T	0.02-0.5	1.5	80	1.5	100-500	0.2-1	*	*
C3TV2011670Y	0.02-1	1.6	70	1.5	100	1	*	39x26x12
C3TV2032560Y	0.02-3	2.5	60	1.7	100	1	*	39x26x12
C3TV2032660T	0.02-3	2.6	60	2.0	200	0.2	*	*
C3TU5011680T	0.5-1	1.6	80	1.5	100	0.2	*	*
C3TU5041760Y	0.5-4	1.7	60	1.5	50	1	*	39x26x12
C3T01021480T	1-2	1.4	80	1.5	50	0.2	*	*
C3T02042160T	2-4	2.1	60	1.6	50	0.2	*	*
C3T02082260Y	2-8	2.2	60	2.0	50	1	*	39x26x12
C3T02183360T	2-18	3.3	60	2.2	50	0.2	*	*
C3T02183660Y	2-18	3.6	60	2.2	50	0.5	*	39x26x12
C3T06122760Y	6-12	2.7	60	2.0	50	1	*	39x26x12
C3T06183560Y	6-18	3.5	60	2.0	50	0.5	*	39x26x12
C3T08122760T	8-12	2.7	60	1.5	50	0.2	*	*
C3T12183360T	12-18	3.3	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

Pin Diode Switches

C4T (SP4T): Absorptive

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C4TH1U21670Y	0.001-0.2	1.6	70	1.5	1000	1	*	52x26x12
C4TV2U51680T	0.02-0.5	1.6	80	1.5	100-500	0.2-1	*	*
C4TV2011770Y	0.02-1	1.7	70	1.5	100	1	*	52x26x12
C4TV2032760Y	0.02-3	2.7	60	1.7	100	1	*	52x26x12
C4TV2032760T	0.02-3	2.7	60	2.0	200	0.2	*	*
C4TU5011780T	0.5-1	1.7	80	1.5	100	0.2	*	*
C4TU5042060Y	0.5-4	2.0	60	1.5	50	1	*	52x26x12
C4T01021480T	1-2	1.4	80	1.5	50	0.2	*	*
C4T02042260T	2-4	2.2	60	1.6	50	0.2	*	*
C4T02082460Y	2-8	2.4	60	2.0	50	1	*	52x26x12
C4T02183560T	2-18	3.5	60	2.2	50	0.2	*	*
C4T02183960Y	2-18	3.9	60	2.2	50	0.5	*	52x26x12
C4T06123060Y	6-12	3.0	60	2.0	50	1	*	52x26x12
C4T06183860Y	6-18	3.8	60	2.0	50	0.5	*	52x26x12
C4T08122860T	8-12	2.8	60	1.5	50	0.2	*	*
C4T12183560T	12-18	3.5	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

C5T (SP5T): Absorptive

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C5TH1U21670Y	0.001-0.2	1.6	70	1.5	1000	1	*	65x26x12
C5TV2U51680T	0.02-0.5	1.6	80	1.5	100-500	0.2-1	*	*
C5TV2011770Y	0.02-1	1.7	70	1.5	100	1	*	65x26x12
C5TV2032860Y	0.02-3	2.8	60	1.7	100	1	*	65x26x12
C5TV2032860T	0.02-3	2.8	60	2.0	200	0.2	*	*
C5TU5011780T	0.5-1	1.7	80	1.5	100	0.2	*	*
C5TU5042060Y	0.5-4	2.0	60	1.5	50	1	*	65x26x12
C5T01021580T	1-2	1.5	80	1.5	50	0.2	*	*
C5T02042360T	2-4	2.3	60	1.6	50	0.2	*	*
C5T02082460Y	2-8	2.4	60	2.0	50	1	*	65x26x12
C5T02183660T	2-18	3.6	60	2.2	50	0.2	*	*
C5T02183960Y	2-18	3.9	60	2.2	50	0.5	*	65x26x12

Pin Diode Switches

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C5T06123060Y	6-12	3.0	60	2.0	50	1	*	65x26x12
C5T06183860Y	6-18	3.8	60	2.0	50	0.5	*	65x26x12
C5T08122960T	8-12	2.9	60	1.5	50	0.2	*	*
C5T12183560T	12-18	3.5	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

C6T (SP6T): Absorptive

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C6TH1U21670Y	0.001-0.2	1.6	70	1.5	1000	1	*	78x32x12
C6TV2U51780T	0.02-0.5	1.7	80	1.5	100-500	0.2-1	*	*
C6TV2011770Y	0.02-1	1.7	70	1.5	100	1	*	78x32x12
C6TV2032860Y	0.02-3	2.8	60	1.7	100	1	*	78x32x12
C6TV2032960T	0.02-3	2.9	60	2.0	200	0.2	*	*
C6TU5011880T	0.5-1	1.8	80	1.5	100	0.2	*	*
C6TU5042060Y	0.5-4	2.0	60	1.5	50	1	*	78x32x12
C6T01021680T	1-2	1.6	80	1.5	50	0.2	*	*
C6T02042460T	2-4	2.4	60	1.7	50	0.2	*	*
C6T02082460Y	2-8	2.4	60	2.0	50	1	*	78x32x12
C6T02183860T	2-18	3.8	60	2.2	50	0.2	*	*
C6T02184160Y	2-18	4.1	60	2.2	50	0.5	*	78x32x12
C6T06123060Y	6-12	3.0	60	2.0	50	1	*	78x32x12
C6T06184160Y	6-18	4.1	60	2.0	50	0.5	*	78x32x12
C6T08123060T	8-12	3.0	60	1.5	50	0.2	*	*
C6T12183860T	12-18	3.8	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

Pin Diode Switches

C7T (SP7T): Absorptive

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C7TH1U21870Y	0.001-0.2	1.8	70	1.5	1000	1	*	105x42x12
C7TV2U51880T	0.02-0.5	1.8	80	1.5	100-500	0.2-1	*	*
C7TV2011970Y	0.02-1	1.9	70	1.5	100	1	*	105x42x12
C7TV2033060Y	0.02-3	3.0	60	1.7	100	1	*	105x42x12
C7TV2033060T	0.02-3	3.0	60	2.0	200	0.2	*	*
C7TU5011980T	0.5-1	1.9	80	1.5	100	0.2	*	*
C7TU5042060Y	0.5-4	2.0	60	1.5	50	1	*	105x42x12
C7T01021680T	1-2	1.6	80	1.5	50	0.2	*	*
C7T02042460T	2-4	2.4	60	1.8	50	0.2	*	*
C7T02082460Y	2-8	2.4	60	2.0	50	1	*	105x42x12
C7T02184260T	2-18	4.2	60	2.2	50	0.2	*	*
C7T02184460Y	2-18	4.4	60	2.2	50	0.5	*	105x42x12
C7T06123660Y	6-12	3.6	60	2.0	50	1	*	105x42x12
C7T06184460Y	6-18	4.4	60	2.0	50	0.5	*	105x42x12
C7T08123160T	8-12	3.1	60	1.5	50	0.2	*	*
C7T12184060T	12-18	4.0	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

C8T (SP8T): Absorptive

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C8TDC060664TY	DC-6	3.0	50 typ.	2:1	*	*	*	*
C8TH1U21970Y	0.001-0.2	1.9	70	1.5	1000	1	*	110x42x16
C8TV2U51980T	0.02-0.5	1.9	80	1.5	100-500	0.2-1	*	*
C8TV2012070Y	0.02-1	2.0	70	1.5	100	1	*	110x42x16
C8TV2033260Y	0.02-3	3.2	60	1.7	100	1	*	110x42x16
C8TV2033260T	0.02-3	3.2	60	2.0	200	0.2	*	*
C8TU5012080T	0.5-1	2.0	80	1.5	100	0.2	*	*
C8TU5042960Y	0.5-4	2.9	60	1.5	50	1	*	110x42x16
C8T01021780T	1-2	1.7	80	1.5	50	0.2	*	*
C8T02042560T	2-4	2.5	60	1.8	50	0.2	*	*
C8T02083360Y	2-8	3.3	60	2.0	50	1	*	110x42x16
C8T02184860Y	2-18	4.8	60	2.2	50	0.5	*	110x42x16

CERNEX, Inc.

Pin Diode Switches

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Min.	VSWR In/Out Max.	SW speed Turn on/off (ns) Max.	Power (W)	Current@ VDC (A) Typ.	Case Type or DIMENSIONS (mm)
C8T06123960Y	6-12	3.9	60	2.0	50	1	*	110x42x16
C8T06184860Y	6-18	4.8	60	2.0	50	0.5	*	110x42x16

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

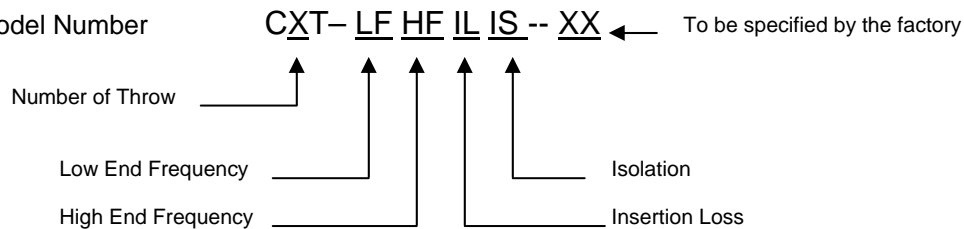
* CONSULT THE FACTORY

Waveguide Band	K	Ka	Q	U	V	E	W	
Waveguide Size	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10	
Frequency Range (GHz)	18 to 26.5	26.5 to 40	33 to 50	40 to 60	50 to 75	60 to 90	75 to 110	
Maximum Available Bandwidth (GHz)	Full	Full	10	10	10	10	10	
Isolation (dB, Min)	20							
Insertion Loss (dB, Typ)	C1T	1.2	1.5	1.8	2.0	2.2	2.3	2.5
	C2T	1.8	2.0	2.2	2.4	2.6	2.8	3.0

Operating Specifications	
Control Input	TTL
DC power	+5/-12 Vdc
With Driver	+100/-10mA
Operating Temperature	0°C to +60°C
Storage Temperature	-55°C to +125°C
VSWR	2:1 Typical (Low Loss Condition)
Switch Speed (nS)	100-250

HOW TO ORDER:

Specify Model Number



Example: To order C2T pin diode switch with a frequency range of 24-43Ghz, insertion loss 2db, and an isolation of 36db, specify C2T-24430236-XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE

CERNEX, Inc. 766 San Aleso Avenue, Sunnyvale, CA 94085 Tel: (408) 541-9226 Fax: (408) 541-9229

04/09