

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 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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C1TRDC060664TY	DC-6	1.6 typ.	60 typ.	2:1	*	*	*	*
C1TRH1U20770Y	0.001-0.2	0.7	70	1.5:1	1000	1	*	26x16x12
C1TRV2U51280T	0.02-0.5	1.2	80	1.5	100-500	1	*	*
C1TRV2010970Y	0.02-1	0.9	70	1.5:1	100	1	*	26x16x12
C1TRV2032060Y	0.02-3	2	60	1.7:1	100	1	*	26x16x12
C1TRU5011380T	0.5-1	1.3	80	1.5	100	1	*	*
C1TRU5041260Y	0.5-4	1.2	60	1.5	50	1	*	26x16x12
C1TR01020880T	1-2	0.8	80	1.5	50	1	*	*
C1TR02041280T	2-4	1.2	80	1.5	50	1	+/-5V@+40mA/-10mA Typ.	SW1
C1TR02081760Y	2-8	1.7	60	2.0	50	1	*	26x16x12
C1TR02182255T	2-18	2.2	55	2.2	50	1	*	*
C1TR02183160Y	2-18	3.1	60	2.2	50	0.5	*	26x16x12
C1TR04081560T	4-8	1.5	60	1.6	50	1	*	*
C1TR06122360Y	6-12	2.3	60	2.0	50	1	*	26x16x12
C1TR06183060Y	6-18	3.0	60	2.0	50	0.5	*	26x16x12
C1TR08121860T	8-12	1.8	60	1.7	50	1	*	SW1
C1TR12182260T	12-18	2.2	56	2.0	50	1	*	SW1

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

Pin Diode Switches

* CONSULT THE FACTORY

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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C2TRDC030435TY	DC-3	1.4 typ.	35 typ.	2:1	*	*	*	*
C2TRH1U20870Y	0.001-0.2	0.8	70	1.5	1000	1	*	26x18x12
C2TRV2U51380T	0.02-0.5	1.3	80	1.5	100-500	1	*	*
C2TRV2011070Y	0.02-1	1.0	70	1.5	100	1	*	26x18x12
C2TRV2032160Y	0.02-3	2.1	60	1.7	100	1	*	26x18x12
C2TRU5011480T	0.5-1	1.4	80	1.5	100	0.2	*	*
C2TRU5041460Y	0.5-4	1.4	60	1.5	50	1	*	26x18x12
C2TRU8010427TQ	0.8-1.7	0.8 typ.	27 typ.	2:1	*	*	*	*
C2TR01021080T	1-2	1.0	80	1.5	50	0.2	*	*
C2TR02041380T	2-4	1.3	80	1.5	50	0.2	*	*
C2TR02081860Y	2-8	1.8	60	2.0	50	1	*	26x18x12
C2TR02080245TY	2-8	2 typ.	45 typ.	2:1	*	*	*	*
C2TR02182460T	2-18	2.4	60	2.2	50	0.2	*	*
C2TR02183260Y	2-18	3.2	60	2.2	50	0.5	*	26x18x12
C2TR02200440TY	2-20	4 typ.	40 typ.	2:1	*	*	*	*
C2TR02020628TQ	2.4-2.5	1 typ.	28 typ.	2:1	*	*	*	*
C2TR04081660T	4-8	1.6	60	1.6	50	0.2	*	*
C2TR05062080	5-6	2.0	70	1.5:1	100	*	20mA/±5V	SW2-2
C2TR06122560Y	6-12	2.5	60	2.0	50	1	*	26x18x12
C2TR06183160Y	6-18	3.1	60	2.0	50	0.5	*	26x18x12
C2TR08122060T	8-12	2.0	60	1.7	50	0.2	*	*
C2TR12182560T	12-18	2.5	60	2.0	50	0.2	*	*
C2TR18503530S	18-50	3.5	30	1.5:1	100	0.25	*	*
C2TR18263560	18.5-26	3.5	60	2.3	500	*	30mA/±5V	SW2
C2TR24430236TQ	24-43	3 typ.	36 typ.	2.5:1typ.	*	*	*	*
C2TR26404555	26.5-40	4.5	55	2.5	500	*	30mA/±5V	SW2
C2TR27460927TQ	27-46	3 typ.	27 typ.	2:1 typ.	40	1	20mA/±5V	SW2
C2TR32400935TQ	32-40	3 typ.	35 typ.	2:1 typ.	40	1	30mA/±5V	SW2
C2TR33503530S	33-50	3.5	30	1.5:1	100	0.25	*	*
C2TR34364040	34-36	4.0	40	2:1 typ.	300	1	30mA/±5	SW2
C2TR45552525S	45-55	2.5	25	1.5:1	100	0.25	*	*
C2TR50601530U	50-60	3.5 typ.	30 typ.	2:1 typ.	*	*	*	*
C2TR55621530V	55-62	3.5 typ.	30 typ.	2:1 typ.	*	*	*	*

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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C2TR55652725S	55-65	2.7	25	1.5:1	100	0.25	*	*
C2TR70865530V	70-86	5.5 typ.	30 typ.	2:1 typ.	25 Typ	100mW	30mA/±5V -5mA	TBD
C2TR75853025S	75-85	3.0	25	1.5:1	100	0.25	*	*
C2TR901003525S	90-100	3.5	25	1.5:1	100	0.25	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C3TRDC030527TY	DC-3	1.5 typ.	27 typ.	2:1	*	*	*	*
C3TRH1U21070Y	0.001-0.2	1.0	70	1.5	1000	1	*	39x26x12
C3TRV2U51480T	0.02-0.5	1.4	80	1.5	100-500	0.2-1	*	*
C3TRV2011270Y	0.02-1	1.2	70	1.5	100	1	*	39x26x12
C3TRV2032260Y	0.02-3	2.2	60	1.7	100	1	*	39x26x12
C3TRU5011580T	0.5-1	1.5	80	1.5	100	0.2	*	*
C3TRU5041560Y	0.5-4	1.5	60	1.5	50	1	*	39x26x12
C3TRU8191528TQ	0.8-1.9	1.5 typ.	28 typ.	2:1	*	*	*	*
C3TR01021280T	1-2	1.2	80	1.5	50	0.2	*	*
C3TR02041380T	2-4	1.3	80	1.5	50	0.2	*	*
C3TR02082060Y	2-8	2.0	60	2.0	50	1	*	39x26x12
C3TR02183260Y	2-18	3.2	60	2.2	50	0.5	*	39x26x12
C3TR02182560T	2-18	2.5	60	2.2	50	0.2	*	*
C3TR04081760T	4-8	1.7	60	1.6	50	0.2	*	*
C3TR06122760Y	6-12	2.7	60	2.0	50	1	*	39x26x12
C3TR06183260Y	6-18	3.2	60	2.0	50	0.5	*	39x26x12
C3TR08122060T	8-12	2.0	60	1.7	50	0.2	*	*
C3TR12182660T	12-18	2.6	60	2.0	50	0.2	*	*
C3TR70857040TQ	70-85	7 typ.	40 typ.	2:1 typ.	50	0.2	*	*
C3TR74805024TY	74-80	5 typ.	24 typ.	2:1 typ.	50	0.2	*	*

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Pin Diode Switches

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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C4TRDC081842H	DC-8	2.5 typ.	42 typ.	2:1	*	*	*	*
C4TRH1U21370Y	0.001-0.2	1.3	70	1.5	1000	1	*	52x26x12
C4TRV2U51580T	0.02-0.5	1.5	80	1.5	100-500	0.2-1	*	*
C4TRV2011470Y	0.02-1	1.4	70	1.5	100	1	*	52x26x12
C4TRV2032460Y	0.02-3	2.4	60	1.7	100	1	*	52x26x12
C4TRU5011680T	0.5-1	1.6	80	1.5	100	0.2	*	*
C4TRU5021530TQ	0.5-2	1.5 typ.	30 typ.	2:1	*	*	*	*
C4TRU5041860Y	0.5-4	1.8	60	1.5	50	1	*	52x26x12
C4TR01021280T	1-2	1.2	80	1.5	50	0.2	*	*
C4TR01203060S2	1-20	3.0 Max	60	1.8:1	30 Typ	0.1	+5V@40mA/ -5V@50mA	*
C4TR02041480T	2-4	1.4	80	1.5	50	0.2	*	*
C4TR02082260Y	2-8	2.2	60	2.0	50	1	*	52x26x12
C4TR02182760T	2-18	2.7	60	2.2	50	0.2	*	*
C4TR02183460Y	2-18	3.4	60	2.2	50	0.5	*	52x26x12
C4TR04081860T	4-8	1.8	60	1.6	50	0.2	*	*
C4TR06122960Y	6-12	2.9	60	2.0	50	1	*	52x26x12
C4TR06183460Y	6-18	3.4	60	2.0	50	0.5	*	52x26x12
C4TR08122160T	8-12	2.1	60	1.7	50	0.2	*	*
C4TR12182860T	12-18	2.8	60	2.0	50	0.2	*	*
C4TR18505030S	18-50	5.0	30	2.0:1	100	0.25	*	*
C4TR22260340TY	22-26	3.0 typ.	40 typ.	2:1	*	*	*	*
C4TR33505030S	33-50	5.0	30	2.0:1	100	0.25	*	*
C4TR45555530S	45-55	5.5	30	2.0:1	100	0.25	*	*
C4TR55655830S	55-65	5.8	30	2.0:1	100	0.25	*	*
C4TR75806530S	75-80	6.5	30	2.0:1	100	0.25	*	*

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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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C5TRH1U21570Y	0.001-0.2	1.5	70	1.5	1000	1	*	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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C5TRV2U51580T	0.02-0.5	1.5	80	1.5	100-500	0.2-1	*	*
C5TRV2011670Y	0.02-1	1.6	70	1.5	100	1	*	65x26x12
C5TRV2032660Y	0.02-3	2.6	60	1.7	100	1	*	65x26x12
C5TRU5011680T	0.5-1	1.6	80	1.5	100	0.2	*	*
C5TRU5042060Y	0.5-4	2.0	60	1.5	50	1	*	65x26x12
C5TR01021380T	1-2	1.3	80	1.5	50	0.2	*	*
C5TR02041580T	2-4	1.5	80	1.5	50	0.2	*	*
C5TR02082460Y	2-8	2.4	60	2.0	50	1	*	65x26x12
C5TR02181835TY	2-18	2.5 typ.	35 typ.	2:1	*	*	*	*
C5TR02182860T	2-18	2.8	60	2.2	50	0.2	*	*
C5TR02183560Y	2-18	3.5	60	2.2	50	0.5	*	65x26x12
C5TR04081860T	4-8	1.8	60	1.6	50	0.2	*	*
C5TR06123060Y	6-12	3.0	60	2.0	50	1	*	65x26x12
C5TR06183560Y	6-18	3.5	60	2.0	50	0.5	*	65x26x12
C5TR08122160T	8-12	2.1	60	1.7	50	0.2	*	*
C5TR12182960T	12-18	2.9	60	2.0	50	0.2	*	*
C5TR75791024TY	75-79	10 typ.	24 typ.	2:1 typ	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C6TRH1U21570Y	0.001-0.2	1.5	70	1.5	1000	1	*	78x32x12
C6TRV2U51680T	0.02-0.5	1.6	80	1.5	100-500	0.2-1	*	*
C6TRV2011670Y	0.02-1	1.6	70	1.5	100	1	*	78x32x12
C6TRV2032660Y	0.02-3	2.6	60	1.7	100	1	*	78x32x12
C6TRU5011780T	0.5-1	1.7	80	1.5	100	0.2	*	*
C6TRU5020545TY	0.5-2.5	1.5 typ.	45 typ.	2:1	*	*	*	*
C6TRU5042060Y	0.5-4	2.0	60	1.5	50	1	*	78x32x12
C6TR01021480T	1-2	1.4	80	1.5	50	0.2	*	*
C6TR02041680T	2-4	1.6	80	1.5	50	0.2	*	*
C6TR02082460Y	2-8	2.4	60	2.0	50	1	*	78x32x12
C6TR02181935TY	2-18	2.8 typ.	35 typ.	2:1	*	*	*	*
C6TR02183060T	2-18	3.0	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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C6TR02183560Y	2-18	3.5	60	2.2	50	0.5	*	78x32x12
C6TR04082060T	4-8	2.0	60	1.6	50	0.2	*	*
C6TR06123060Y	6-12	3.0	60	2.0	50	1	*	78x32x12
C6TR06183560Y	6-18	3.5	60	2.0	50	0.5	*	78x32x12
C6TR08122360T	8-12	2.3	60	1.7	50	0.2	*	*
C6TR12183260T	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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C7TRH1U21770Y	0.001-0.2	1.7	70	1.5	1000	1	*	105x42x12
C7TRV2U51780T	0.02-0.5	1.7	80	1.5	100-500	0.2-1	*	*
C7TRV2011870Y	0.02-1	1.8	70	1.5	100	1	*	105x42x12
C7TRV2032860Y	0.02-3	2.8	60	1.7	100	1	*	105x42x12
C7TRU5011880T	0.5-1	1.8	80	1.5	100	0.2	*	*
C7TRU5042060Y	0.5-4	2.0	60	1.5	50	1	*	105x42x12
C7TR01021480T	1-2	1.4	80	1.5	50	0.2	*	*
C7TR02041680T	2-4	1.6	80	1.5	50	0.2	*	*
C7TR02082460Y	2-8	2.4	60	2.0	50	1	*	105x42x12
C7TR02183260T	2-18	3.2	60	2.2	50	0.2	*	*
C7TR02183560Y	2-18	3.5	60	2.2	50	0.5	*	105x42x12
C7TR04082060T	4-8	2.0	60	1.6	50	0.2	*	*
C7TR06123060Y	6-12	3.0	60	2.0	50	1	*	105x42x12
C7TR06183560Y	6-18	3.5	60	2.0	50	0.5	*	105x42x12
C7TR08122560T	8-12	2.5	60	1.7	50	0.2	*	*
C7TR12183360T	12-18	3.3	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

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Pin Diode Switches

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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C8TRDC100238H	DC-10	3.0 typ.	38 typ.	*	*	*	*	*
C8TRH1U21770Y	0.001-0.2	1.7	70	1.5	1000	1	*	110x42x16
C8TRV2U51780T	0.02-0.5	1.7	80	1.5	100-500	0.2-1	*	*
C8TRV2011870Y	0.02-1	1.8	70	1.5	100	1	*	110x42x16
C8TRV2033060Y	0.02-3	3.0	60	1.7	100	1	*	110x42x16
C8TRU5011880T	0.5-1	1.8	80	1.5	100	0.2	*	*
C8TRU5042060Y	0.5-4	2.0	60	1.5	50	1	*	110x42x16
C8TR01021480T	1-2	1.4	80	1.5	50	0.2	*	*
C8TR02041780T	2-4	1.7	80	1.5	50	0.2	*	*
C8TR02082460Y	2-8	2.4	60	2.0	50	1	*	110x42x16
C8TR02183760Y	2-18	3.7	60	2.2	50	0.5	*	110x42x16
C8TR02184060T	2-18	4.0	60	2.2	50	0.2	*	*
C8TR04082260T	4-8	2.2	60	1.6	50	0.2	*	*
C8TR06123060Y	6-12	3.0	60	2.0	50	1	*	110x42x16
C8TR06183760Y	6-18	3.7	60	2.0	50	0.5	*	110x42x16

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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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C1TAH1U21370Y	0.001-0.2	1.3	70	1.5	1000	1	*	26x16x12
C1TAV2U51480T	0.02-0.5	1.4	80	1.5	100-500	0.2-1	*	*
C1TAV2011570Y	0.02-1	1.5	70	1.5	100	1	*	26x16x12
C1TAV2032460Y	0.02-3	2.4	60	1.7	100	1	*	26x16x12
C1TAV2032460T	0.02-3	2.4	60	2.0	200	0.2	*	*
C1TAU5011580T	0.5-1	1.5	80	1.5	100	0.2	*	*
C1TAU5041660Y	0.5-4	1.6	60	1.5	50	1	*	26x16x12
C1TA01021080T	1-2	1.0	80	1.5	50	0.2	*	*
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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C1TA02042060T	2-4	2.0	60	1.6	50	0.2	*	*

Pin Diode Switches

C1TA02082060Y	2-8	2.0	60	2.0	50	1	*	26x16x12
C1TA02183160T	2-18	3.1	60	2.2	50	0.2	*	*
C1TA02183260Y	2-18	3.2	60	2.2	50	0.5	*	26x16x12
C1TA06122560Y	6-12	2.5	60	2.0	50	1	*	26x16x12
C1TA06183260Y	6-18	3.2	60	2.0	50	1	*	26x16x12
C1TA08122560T	8-12	2.5	60	1.5	50	0.2-2	*	*
C1TA12183260T	12-18	3.2	60	2.0	50	0.2	*	*
C1TA18502330S	18-50	2.3	30	1.5:1	100	0.25	*	*
C1TA18502540S	18-50	2.5	40	1.5:1	100	0.25	*	*
C1TA33502230S	33-50	2.2	30	1.5:1	100	0.25	*	*
C1TA33502540S	33-50	2.5	40	1.5:1	100	0.25	*	*

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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C2TAH1U21370Y	0.001-0.2	1.3	70	1.5	1000	1	*	26x18x12
C2TAV2U51580T	0.02-0.5	1.5	80	1.5	100-500	0.2-1	*	*
C2TAV2011570Y	0.02-1	1.5	70	1.5	100	1	*	26x18x12
C2TAV2032460Y	0.02-3	2.4	60	1.7	100	1	*	26x18x12
C2TAV2032560T	0.02-3	2.5	60	2.0	200	0.2	*	*
C2TAU5011680T	0.5-1	1.6	80	1.5	100	0.2	*	*
C2TAU5041660Y	0.5-4	1.6	60	1.5	50	1	*	26x18x12
C2TA01021280T	1-2	1.2	80	1.5	50	0.2	*	*
C2TA02042060T	2-4	2.0	60	1.6	50	0.2	*	*
C2TA02082060Y	2-8	2.0	60	2.0	50	1	*	26x18x12
C2TA02183260T	2-18	3.2	60	2.2	50	0.2	*	*
C2TA02183260Y	2-18	3.2	60	2.2	50	0.5	*	26x18x12
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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C2TA06122560Y	6-12	2.5	60	2.0	50	1	*	26x18x12
C2TA06183260Y	6-18	3.2	60	2.0	50	0.5	*	26x18x12
C2TA08122660T	8-12	2.6	60	1.5	50	0.2	*	*
C2TA12183260T	12-18	3.2	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

Pin Diode Switches

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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C3TAH1U21570Y	0.001-0.2	1.5	70	1.5	1000	1	*	39x26x12
C3TAV2U51580T	0.02-0.5	1.5	80	1.5	100-500	0.2-1	*	*
C3TAV2011670Y	0.02-1	1.6	70	1.5	100	1	*	39x26x12
C3TAV2032560Y	0.02-3	2.5	60	1.7	100	1	*	39x26x12
C3TAV2032660T	0.02-3	2.6	60	2.0	200	0.2	*	*
C3TAU5011680T	0.5-1	1.6	80	1.5	100	0.2	*	*
C3TAU5041760Y	0.5-4	1.7	60	1.5	50	1	*	39x26x12
C3TA01021480T	1-2	1.4	80	1.5	50	0.2	*	*
C3TA02042160T	2-4	2.1	60	1.6	50	0.2	*	*
C3TA02082260Y	2-8	2.2	60	2.0	50	1	*	39x26x12
C3TA02183360T	2-18	3.3	60	2.2	50	0.2	*	*
C3TA02183660Y	2-18	3.6	60	2.2	50	0.5	*	39x26x12
C3TA06122760Y	6-12	2.7	60	2.0	50	1	*	39x26x12
C3TA06183560Y	6-18	3.5	60	2.0	50	0.5	*	39x26x12
C3TA08122760T	8-12	2.7	60	1.5	50	0.2	*	*
C3TA12183360T	12-18	3.3	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C4TAH1U21670Y	0.001-0.2	1.6	70	1.5	1000	1	*	52x26x12
C4TAV2U51680T	0.02-0.5	1.6	80	1.5	100-500	0.2-1	*	*
C4TAV2011770Y	0.02-1	1.7	70	1.5	100	1	*	52x26x12
C4TAV2032760Y	0.02-3	2.7	60	1.7	100	1	*	52x26x12
C4TAV2032760T	0.02-3	2.7	60	2.0	200	0.2	*	*
C4TAV7144080	0.07-14.5	4.0 Max	80	2.0	50	0.2	+5V@100mA/ -12V@30mA	SW4-1
C4TAU5011780T	0.5-1	1.7	80	1.5	100	0.2	*	*
C4TAU5042060Y	0.5-4	2.0	60	1.5	50	1	*	52x26x12
C4TA01021480T	1-2	1.4	80	1.5	50	0.2	*	*

Pin Diode Switches

C4TA02042260T	2-4	2.2	60	1.6	50	0.2	*	*
C4TA02082460Y	2-8	2.4	60	2.0	50	1	*	52x26x12
C4TA02183560T	2-18	3.5	60	2.2	50	0.2	*	*
C4TA02183960Y	2-18	3.9	60	2.2	50	0.5	*	52x26x12
C4TA06123060Y	6-12	3.0	60	2.0	50	1	*	52x26x12
C4TA06183860Y	6-18	3.8	60	2.0	50	0.5	*	52x26x12
C4TA08122860T	8-12	2.8	60	1.5	50	0.2	*	*
C4TA12183560T	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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C5TAH1U21670Y	0.001-0.2	1.6	70	1.5	1000	1	*	65x26x12
C5TAV2U51680T	0.02-0.5	1.6	80	1.5	100-500	0.2-1	*	*
C5TAV2011770Y	0.02-1	1.7	70	1.5	100	1	*	65x26x12
C5TAV2032860Y	0.02-3	2.8	60	1.7	100	1	*	65x26x12
C5TAV2032860T	0.02-3	2.8	60	2.0	200	0.2	*	*
C5TAU5011780T	0.5-1	1.7	80	1.5	100	0.2	*	*

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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C5TAU5042060Y	0.5-4	2.0	60	1.5	50	1	*	65x26x12
C5TA01021580T	1-2	1.5	80	1.5	50	0.2	*	*
C5TA02042360T	2-4	2.3	60	1.6	50	0.2	*	*
C5TA02082460Y	2-8	2.4	60	2.0	50	1	*	65x26x12
C5TA02183660T	2-18	3.6	60	2.2	50	0.2	*	*
C5TA02183960Y	2-18	3.9	60	2.2	50	0.5	*	65x26x12
C5TA06123060Y	6-12	3.0	60	2.0	50	1	*	65x26x12
C5TA06183860Y	6-18	3.8	60	2.0	50	0.5	*	65x26x12
C5TA08122960T	8-12	2.9	60	1.5	50	0.2	*	*
C5TA12183560T	12-18	3.5	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

C6T (SP6T): Absorptive

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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C6TAH1U21670Y	0.001-0.2	1.6	70	1.5	1000	1	*	78x32x12
C6TAV2U51780T	0.02-0.5	1.7	80	1.5	100-500	0.2-1	*	*
C6TAV2011770Y	0.02-1	1.7	70	1.5	100	1	*	78x32x12
C6TAV2032860Y	0.02-3	2.8	60	1.7	100	1	*	78x32x12
C6TAV2032960T	0.02-3	2.9	60	2.0	200	0.2	*	*
C6TAU5011880T	0.5-1	1.8	80	1.5	100	0.2	*	*
C6TAU5042060Y	0.5-4	2.0	60	1.5	50	1	*	78x32x12
C6TA01021680T	1-2	1.6	80	1.5	50	0.2	*	*
C6TA02042460T	2-4	2.4	60	1.7	50	0.2	*	*
C6TA02082460Y	2-8	2.4	60	2.0	50	1	*	78x32x12
C6TA02183860T	2-18	3.8	60	2.2	50	0.2	*	*
C6TA02184160Y	2-18	4.1	60	2.2	50	0.5	*	78x32x12
C6TA06123060Y	6-12	3.0	60	2.0	50	1	*	78x32x12
C6TA06184160Y	6-18	4.1	60	2.0	50	0.5	*	78x32x12
C6TA08123060T	8-12	3.0	60	1.5	50	0.2	*	*
C6TA12183860T	12-18	3.8	60	2.0	50	0.2	*	*

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C7TAH1U21870Y	0.001-0.2	1.8	70	1.5	1000	1	*	105x42x12
C7TAV2U51880T	0.02-0.5	1.8	80	1.5	100-500	0.2-1	*	*
C7TAV2011970Y	0.02-1	1.9	70	1.5	100	1	*	105x42x12
C7TAV2033060Y	0.02-3	3.0	60	1.7	100	1	*	105x42x12
C7TAV2033060T	0.02-3	3.0	60	2.0	200	0.2	*	*
C7TAU5011980T	0.5-1	1.9	80	1.5	100	0.2	*	*
C7TAU5042060Y	0.5-4	2.0	60	1.5	50	1	*	105x42x12
C7TA01021680T	1-2	1.6	80	1.5	50	0.2	*	*
C7TA02042460T	2-4	2.4	60	1.8	50	0.2	*	*
C7TA02082460Y	2-8	2.4	60	2.0	50	1	*	105x42x12
C7TA02184260T	2-18	4.2	60	2.2	50	0.2	*	*
C7TA02184460Y	2-18	4.4	60	2.2	50	0.5	*	105x42x12

Pin Diode Switches

C7TA06123660Y	6-12	3.6	60	2.0	50	1	*	105x42x12
C7TA06184460Y	6-18	4.4	60	2.0	50	0.5	*	105x42x12
C7TA08123160T	8-12	3.1	60	1.5	50	0.2	*	*
C7TA12184060T	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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C8TADC060664TY	DC-6	3.0	50 typ.	2:1	*	*	*	*
C8TAH1U21970Y	0.001-0.2	1.9	70	1.5	1000	1	*	110x42x16
C8TAV2U51980T	0.02-0.5	1.9	80	1.5	100-500	0.2-1	*	*
C8TAV2012070Y	0.02-1	2.0	70	1.5	100	1	*	110x42x16
C8TAV2033260Y	0.02-3	3.2	60	1.7	100	1	*	110x42x16
C8TAV2033260T	0.02-3	3.2	60	2.0	200	0.2	*	*
C8TAU5012080T	0.5-1	2.0	80	1.5	100	0.2	*	*
C8TAU5042960Y	0.5-4	2.9	60	1.5	50	1	*	110x42x16
C8TA01021780T	1-2	1.7	80	1.5	50	0.2	*	*
C8TA02042560T	2-4	2.5	60	1.8	50	0.2	*	*
C8TA02083360Y	2-8	3.3	60	2.0	50	1	*	110x42x16
C8TA02184860Y	2-18	4.8	60	2.2	50	0.5	*	110x42x16

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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C8TA06123960Y	6-12	3.9	60	2.0	50	1	*	110x42x16
C8TA06184860Y	6-18	4.8	60	2.0	50	0.5	*	110x42x16

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

* CONSULT THE FACTORY

C10T (SP10T): 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 (mA) Typ.	Case Type or DIMENSIONS (mm)
C10TAV7147080	0.07-14.5	7.0 Max	80	2.0	50	0.2	+5V@320mA/ -12V@40mA	SW10
C10TA08185070	8-18	5.0	70	1.8	50	0.2	+5V@320mA/ -12V@40mA	SW10

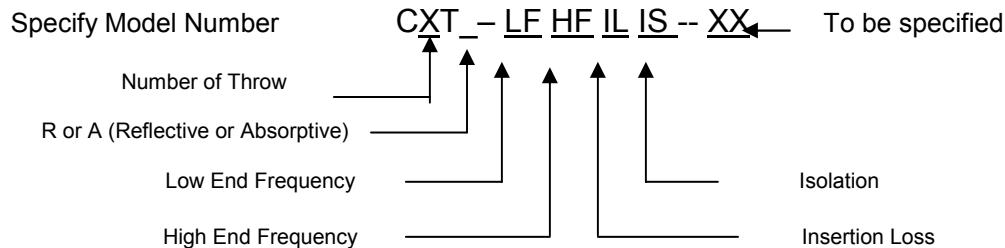
Pin Diode Switches

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
Number of Throw		Full	Full	10	10	10	10	10
Maximum Available Bandwidth (GHz)		Full	Full	10	10	10	10	10
Isolation (dB, Min)		20						
		Insertion Loss						

Waveguide Band		K	Ka	Q	U	V	E	W
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:



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.

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