

Series CCT-38S Multi-Throw DC-12 GHz, SP7T & SP8T **Normally Open Coaxial Switch**

PART NUMBER DESCRIPTION

Commercial Normally Open Multi-throw, DC-12 GHz CCT-38S

The CCT-38S is a broadband, multi-throw, electromechanical coaxial switch designed to switch a microwave signal from a common input to any of 7 or 8 outputs. The characteristic impedance is 50 Ohms. The switches are small using the popular connector spacing on a 1.540" dia. circle. Each position has an individual actuator mechanism allowing random position selection. This also gives the minimum switching time.

With the normally open actuator, all paths are open when the switch is de-energized.



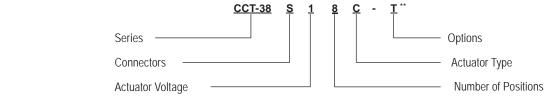


ENVIRONMENTAL AND PHYSICAL	_ CHARACTERISTICS
Operating Temperature Commercial Model, CCT-38S	–40°C to 65°C
Vibration (MIL-STD-202 Method 214, Condition D, non-operating)	10 g's RMS
Shock (MIL-STD-202 Method 213, Condition D, non-operating)	500 g′s
Standard Actuator Life Actuator Life w/ Additional Features	3,000,000 cycles 1,000,000 cycles
Connector Type	SMA
Humidity (Moisture Seal)	Available
Weight	9 oz. (255.2G) (max.)

ELECTRICAL CHARACTERISTICS				
Form Factor	Multi- break		•	e
Frequency Range	DC-1	2 GHz		
Characteristic Impedance	50 Oh	ıms		
Operate Time	20 ms	(max	.)	
Release Time	20 ms	(max	.)	
Actuation Voltage Available	12	15	24	28 V
Actuation Current, max. @ ambient	580	720	345	405 mA

PERFORMANCE CHARACTERISTICS										
Frequency	DC-6 GHz	6–12 GHz								
Insertion Loss, dB, max.	0.20	0.40								
Isolation, dB, min.	70	60								
VSWR , max.	1.30:1	1.40:1								

PART NUMBERING SYSTEM



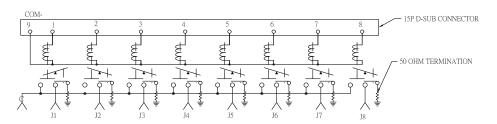
CONNECTOR	ACTUATOR VOLTAGE	NUMBER OF POSITIONS	ACTUATOR TYPE	OPTIONS
S: SMA FEMALE	1: 28 VDC NORMALLY OPEN	7: SP7T	0: NO INDICATOR CONTACTS	T: TTL DRIVERS WITH DIODES
	2: 15 VDC NORMALLY OPEN	8: SP8T	C: INDICATOR CONTACTS	D: COIL TRANSIENT SUPPRESSION DIODES
	3: 12 VDC NORMALLY OPEN			S: D-SUB CONNECTOR*
	4: 24 VDC NORMALLY OPEN			TD: DECODERS AND TTL DRIVERS WITH DIODES
		**SEE PARTS	LIST ON PAGE 10-11	M: MOISTURE SEAL

For additional options, please contact factory.

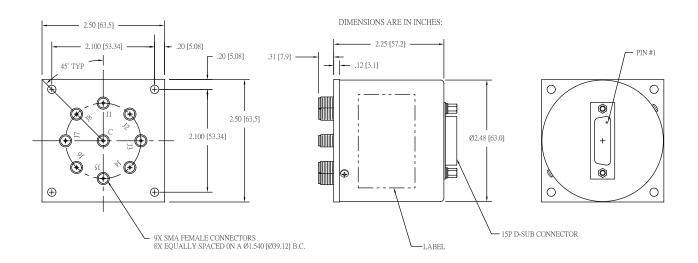
* D-Sub Connector may be 9, 15 or 26 pin depending on number of throws. (See Connector Pinout page)



SCHEMATICS AND MECHANICAL OUTLINE



NORMALLY OPEN ON EACH UNUSED POSITION

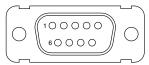


"-S OPTION" 9-PIN, 15-PIN D-SUB OR 26-PIN D-MICRO CONNECTOR (EXAMPLE: CCT-38S180-S)

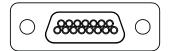




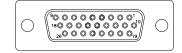
CONNECTOR	PINOUT FOR NO	RMALLY OPEN	SP7T MULTI-THI	ROW SWITCHES	;	
EXAMPLE	CCT-38S170-S	CCT-38S17C-S	CCT-38S170-TS	CCT-38S17C-TS	CCT-38S170-TDS	CCT-38S17C-TDS
INDICATOR		YES		Yes		Yes
TTL			Yes	Yes		
DECODERS & TTL					Yes	Yes
PIN NO.	9-PIN	26-PIN	9-PIN	26-PIN	9-PIN	15-PIN
1	PORT 1	PORT 1	TTL1	TTL1	LOGIC 1	LOGIC 1
2	PORT 2	PORT 2	TTL2	TTL 2	LOGIC 2	LOGIC 2
3	PORT 3	PORT 3	TTL3	TTL3	LOGIC 3	LOGIC 3
4	PORT 4	PORT 4	TTL 4	TTL 4		
5	PORT 5	PORT 5	TTL 5	TTL 5	Common	Common
6	PORT 6	PORT 6	TTL 6	TTL 6	Vsw	Vsw
7	PORT 7	PORT 7	TTL7	TTL7		D Indicator (com)
8			Соммон			E Indicator
9	Common	Common	Vsw	Common		F Indicator
10				Vsw		G Indicator
11						H Indicator
12						K Indicator
13						L Indicator
14						M Indicator
15						
16		D Indicator (com)		D Indicator (com)		
17		E Indicator		E Indicator		
18		F Indicator		F Indicator		
19		G Indicator		G Indicator		
20		H Indicator		H Indicator		
21		K Indicator		K Indicator		
22		L Indicator		L Indicator		
23		M Indicator		M Indicator		
24						
25						
26						



9-PIN D-SUB CONNECTOR



15-PIN D-SUB CONNECTOR



26-PIN D-SUB CONNECTOR

Series CCT-38S

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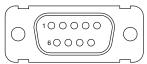


	T TRU -38SX		ABLE	Norm	ally O	pen															
		L	ogic Inp	out							RF Pat	h					Indica	ator Swi	tches		
1	2	3	4	5	6	7		J1	J2	J3	J4	J5	J6	J7	Е	F	G	Н	K	L	M
1	0	0	0	0	0	0		On	Off	Off	Off	Off	Off	Off	С	0	0	0	0	0	0
0	1	0	0	0	0	0	•	Off	On	Off	Off	Off	Off	Off	0	С	0	0	0	0	0
0	0	1	0	0	0	0	•	Off	Off	On	Off	Off	Off	Off	0	0	С	0	0	0	0
0	0	0	1	0	0	0	-	Off	Off	Off	On	Off	Off	Off	0	0	0	С	0	0	0
0	0	0	0	1	0	0	-	Off	Off	Off	Off	On	Off	Off	0	0	0	0	С	0	0
0	0	0	0	0	1	0	•	Off	Off	Off	Off	Off	On	Off	0	0	0	0	0	С	0
0	0	0	0	0	0	1		Off	Off	Off	Off	Off	Off	On	0	0	0	0	0	0	С

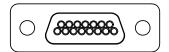
	H TABL 88SX7C		ally Op	en													
	Logic Inpu	ıt					RF Path					I	ndicator	Switche	S		
1	2	3		J1	J2	J3	J4	J5	J6	J7	E	F	G	Н	K	L	M
0	0	0		On	Off	Off	Off	Off	Off	Off	С	0	0	0	0	0	0
1	0	0		Off	On	Off	Off	Off	Off	Off	0	С	0	0	0	0	0
0	1	0		Off	Off	On	Off	Off	Off	Off	0	0	С	0	0	0	0
1	1	0		Off	Off	Off	On	Off	Off	Off	0	0	0	С	0	0	0
0	0	1		Off	Off	Off	Off	On	Off	Off	0	0	0	0	С	0	0
1	0	1		Off	Off	Off	Off	Off	On	Off	0	0	0	0	0	С	0
0	1	1		Off	Off	Off	Off	Off	Off	On	0	0	0	0	0	0	С
1	1	1		Off	Off	Off	Off	Off	Off	Off	0	0	0	0	0	0	0



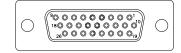
EXAMPLE	CCT-38S180-S	CCT-38S18C-S	CCT-38S180-TS	CCT-38S18C-TS	CCT-38S180-TDS	CCT-38S18C-TDS
INDICATOR		YES		Yes		YES
TTL			YES	Yes		
DECODERS & TTL					Yes	YES
PIN NO.	9-PIN	26-PIN	15-PIN	26-PIN	9-PIN	15-PIN
1	PORT 1	PORT 1	TTL1	TTL 1	LOGIC 1	LOGIC 1
2	PORT 2	PORT 2	TTL2	TTL 2	LOGIC 2	LOGIC 2
3	PORT 3	PORT 3	TTL3	TTL 3	LOGIC 3	LOGIC 3
4	PORT 4	PORT 4	TTL4	TTL 4	LOGIC 4	LOGIC 4
5	PORT 5	PORT 5	TTL5	TTL 5	Common	Common
6	PORT 6	PORT 6	TTL6	TTL 6	Vsw	Vsw
7	PORT 7	PORT 7	TTL7	TTL 7		D Indicator (com)
8	PORT 8	PORT 8	TTL8	TTL 8		E Indicator
9	Common	Common	Common	Common		F Indicator
10			Vsw	Vsw		G Indicator
11						H Indicator
12						K Indicator
13						L Indicator
14						M Indicator
15						N Indicator
16		D Indicator (com)		D Indicator (com)		
17		E Indicator		E Indicator		
18		F Indicator		F Indicator		
19		G Indicator		G Indicator		
20		H Indicator		H Indicator		
21		K Indicator		K Indicator		
22		L Indicator		L Indicator		
23		M Indicator		M Indicator		
24		N Indicator		N Indicator		
25						
26						



9-PIN D-SUB CONNECTOR



15-PIN D-SUB CONNECTOR



26-PIN D-SUB CONNECTOR

КF	NO	ı	ᆮᇰ

Series CCT-38S

Multi-Throw DC-12 GHz, SP7T & SP8T Normally Open Coaxial Switch



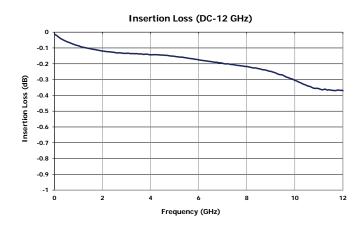
	ST TR Г-38S		TABL T	.E No	rmall	Іу Ор	en																	
			Logic	Input								RF	Path						Ind	dicator	Switch	ies		
1	2	3	4	5	6	7	8	_	J1	J2	J3	J4	J5	J6	J7	J8	Е	F	G	Н	K	L	М	N
1	0	0	0	0	0	0	0		On	Off	Off	Off	Off	Off	Off	Off	С	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0		Off	On	Off	Off	Off	Off	Off	Off	0	С	0	0	0	0	0	0
0	0	1	0	0	0	0	0		Off	Off	On	Off	Off	Off	Off	Off	0	0	С	0	0	0	0	0
0	0	0	1	0	0	0	0		Off	Off	Off	On	Off	Off	Off	Off	0	0	0	С	0	0	0	0
0	0	0	0	1	0	0	0		Off	Off	Off	Off	On	Off	Off	Off	0	0	0	0	С	0	0	0
0	0	0	0	0	1	0	0		Off	Off	Off	Off	Off	On	Off	Off	0	0	0	0	0	С	0	0
0	0	0	0	0	0	1	0		Off	Off	Off	Off	Off	Off	On	Off	0	0	0	0	0	0	С	0
0	0	0	0	0	0	0	1		Off	Off	Off	Off	Off	Off	Off	On	0	0	0	0	0	0	0	С

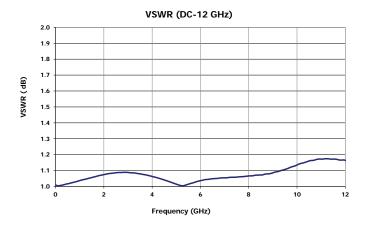
	TH TAE 38SX8		ormally	y Open																	
	Logic	Input						RF	Path							Indica	ator Sw	itches			
1	2	3	4		J1	J2	J3	J4	J5	J6	J7	J8		Е	F	G	Н	K	L	M	N
0	0	0	0	•	On	Off	Off	Off	Off	Off	Off	Off	•	С	0	0	0	0	0	0	0
1	0	0	0	_	Off	On	Off	Off	Off	Off	Off	Off	-	0	С	0	0	0	0	0	0
0	1	0	0	_	Off	Off	On	Off	Off	Off	Off	Off	-	0	0	С	0	0	0	0	0
1	1	0	0	_	Off	Off	Off	On	Off	Off	Off	Off	-	0	0	0	С	0	0	0	0
0	0	1	0	_	Off	Off	Off	Off	On	Off	Off	Off	-	0	0	0	0	С	0	0	0
1	0	1	0	-	Off	Off	Off	Off	Off	On	Off	Off	-	0	0	0	0	0	С	0	0
0	1	1	0	_	Off	Off	Off	Off	Off	Off	On	Off	-	0	0	0	0	0	0	С	0
1	1	1	0	-	Off	Off	Off	Off	Off	Off	Off	On	-	0	0	0	0	0	0	0	С
0	0	0	1	-	Off	Off	Off	Off	Off	Off	Off	Off	-	0	0	0	0	0	0	0	0

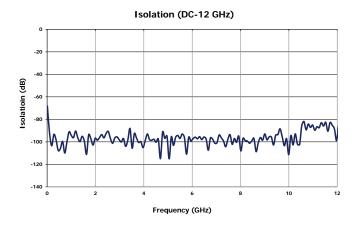
RF NOTES		



TYPICAL RF PERFORMANCE CURVES



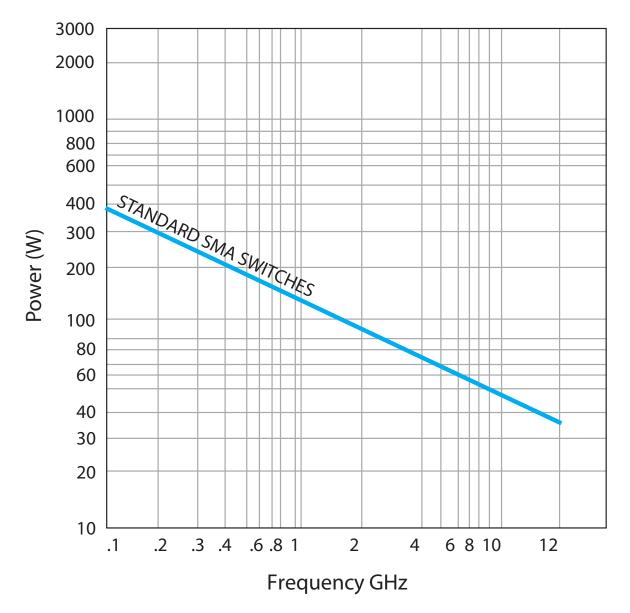






TYPICAL POWER PERFORMANCE CURVE

Power Handling vs. Frequency



Estimates based on the following reference conditions:

- Ambient temperature of 40°C or less
- · Sea level operation
- · Load VSWR of 1.20:1 maximum
- · No high-power (hot) switching

Please contact Teledyne Coax Switches for derating factors when applications do not meet the foregoing reference conditions.

Series CCT-38S Multi-Throw DC-12 GHz, SP7T & SP8T Normally Open Coaxial Switch

GLOSSARY

Actuator

An actuator is the electromechanical mechanism that transfers the RF contacts from one position to another upon DC command.

Arc Suppression Diode

A diode is connected in parallel with the coil. This diode limits the "reverse EMF spike" generated when the coil deenergizes to 0.7 volts. The diode cathode is connected to the positive side of the coil and the anode is connected to the negative side.

Date Code

All switches are marked with either a unique serial number or a date code. Date codes are in accordance with MIL-STD-1285 Paragraph 5.2.5 and consist of four digits. The first two digits define the year and the last two digits define the week of the year (YYWW). Thus, 1032 identifies switches that passed through final inspection during the 32nd week of 2010.

Indicator

Indicators tell the system which position the switch is in. Other names for indicators are telemetry contacts or tellback circuit. Indicators are usually a set of internally mounted DC contacts linked to the actuator. They can be wired to digital input lines, status lights, or interlocks. Unless otherwise specified, the maximum indicator contact rating is 30 Vdc, 50 mA, or 1.5 Watts into a resistive load.

Isolation

Isolation is the measure of the power level at the output connector of an unconnected RF channel as referenced to the power at the input connector. It is specified in dB below the input power level.

Multi-Throw Switch

A multi-throw switch is a switch with one input and three or more output ports. The CCT-38 can switch a microwave signal to any of 8 outputs from a single common input.

Switching Time

Switching time is the total interval beginning with the arrival of the leading edge of the command pulse at the switch DC input and ending with the completion of the switch transfer, including contact bounce. It consists of three parts: (1) inductive delay in the coil, (2) transfer time of the physical movement of the contacts, and (3) the bounce time of the RF contacts.

TTL Switch Driver Option

As a special option, switch drivers can be provided for both failsafe and latching switches, which are compatible with industry-standard low-power Schottky TTL circuits.

TD-Option

This option includes a decoder. The 3-bit parallel command is decoded to internally select the appropriate position. See the logic tables. The TD-Option increases the Vsw supply current demand by 50mA max at 28Vdc and +20°C.

Performance Parameters vs Frequency

Generally speaking, the RF performance of coaxial switches is frequency dependent. With increasing frequency, VSWR and insertion loss increase while isolation decreases. All data sheets specify these three parameters as "worst case" at the highest operating frequency. If the switch is to be used over a narrow frequency band, better performance can be achieved.

Actuator Current vs Temperature

The resistance of the actuator coil varies as a function of temperature. There is an inverse relationship between the operating temperature of the switch and the actuator drive current. For switches operating at 28 VDC, the approximate actuator drive current at temperature, T, can be calculated using the equation:

$$I_{T} = \frac{I_{A}}{[1 + .00385 (T-20)]}$$

Where:

I_T = Actuator current at temperature, T

I_A = Room temperature actuator current – see data sheet

T = Temperature of interest in °C

Magnetic Sensitivity

An electro-mechanical switch can be sensitive to ferrous materials and external magnetic fields. Neighboring ferrous materials should be permitted no closer than 0.5 inches and adjacent external magnetic fields should be limited to a flux density of less than 5 Gauss.

SPECIAL FEATURE

Switching High-Power or Highly Sensitive Signals

Ensure the most linear response with the best galvanically matched contact system in the industry. Extremely low passive intermodulation is standard on all of our switches.

Carrier Frequency 1	Carrier Frequency 2	PIM 3rd Order Frequency	PIM 5th Order Fre- quency
870 MHz	893 MHz	847 MHz	824 MHz

	3rd Order Intermodulation	5th Order Intermodulation
Multiple Positions	-96 dBm	–115 dBm
	–139 dBc	–158 dBc

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Multi-Throw DC-12 GHz, SP7T & SP8T Normally Open Coaxial Switch



NORMALLY OPEN CCT-38S PART NUMBER LIST

1		I		
Part No.		Part No.		Part No.
CCT-38SX7C	43	CCT-38SX70	85	CCT-38SX8C
CCT-38SX7C-D	44	CCT-38SX70-D	86	CCT-38SX8C-D
CCT-38SX7C-DM	45	CCT-38SX70-DM	87	CCT-38SX8C-DM
CCT-38SX7C-M	46	CCT-38SX70-M	88	CCT-38SX8C-M
CCT-38SX7C-MS	47	CCT-38SX70-MS	89	CCT-38SX8C-MS
CCT-38SX7C-S	48	CCT-38SX70-S	90	CCT-38SX8C-S
CCT-38SX7C-T	49	CCT-38SX70-T	91	CCT-38SX8C-T
CCT-38SX7C-TD	50	CCT-38SX70-TD	92	CCT-38SX8C-TD
CCT-38SX7C-TDM	51	CCT-38SX70-TDM	93	CCT-38SX8C-TDM
CCT-38SX7C-TDMS	52	CCT-38SX70-TDMS	94	CCT-38SX8C-TDMS
CCT-38SX7C-TDS	53	CCT-38SX70-TDS	95	CCT-38SX8C-TDS
CCT-38SX7C-TM	54	CCT-38SX70-TM	96	CCT-38SX8C-TM
CCT-38SX7C-TMS	55	CCT-38SX70-TMS	97	CCT-38SX8C-TMS
CCT-38SX7C-TS	56	CCT-38SX70-TS	98	CCT-38SX8C-TS
CCT-38SX70	57	CCT-38SX8C	99	CCT-38SX80
CCT-38SX70-D	58	CCT-38SX8C-D	100	CCT-38SX80-D
CCT-38SX70-DM	59	CCT-38SX8C-DM	101	CCT-38SX80-DM
CCT-38SX70-M	60	CCT-38SX8C-M	102	CCT-38SX80-M
CCT-38SX70-MS	61	CCT-38SX8C-MS	103	CCT-38SX80-MS
CCT-38SX70-S	62	CCT-38SX8C-S	104	CCT-38SX80-S
CCT-38SX70-T	63	CCT-38SX8C-T	105	CCT-38SX80-T
CCT-38SX70-TD	64	CCT-38SX8C-TD	106	CCT-38SX80-TD
CCT-38SX70-TDM	65	CCT-38SX8C-TDM	107	CCT-38SX80-TDM
CCT-38SX70-TDMS	66	CCT-38SX8C-TDMS	108	CCT-38SX80-TDMS
CCT-38SX70-TDS	67	CCT-38SX8C-TDS	109	CCT-38SX80-TDS
CCT-38SX70-TM	68	CCT-38SX8C-TM	110	CCT-38SX80-TM
CCT-38SX70-TMS	69	CCT-38SX8C-TMS	111	CCT-38SX80-TMS
CCT-38SX70-TS	70	CCT-38SX8C-TS	112	CCT-38SX80-TS
CCT-38SX7C	71	CCT-38SX80		
CCT-38SX7C-D	72	CCT-38SX80-D		
CCT-38SX7C-DM	73	CCT-38SX80-DM		
CCT-38SX7C-M	74	CCT-38SX80-M		
CCT-38SX7C-MS	75	CCT-38SX80-MS		
CCT-38SX7C-S	76	CCT-38SX80-S		
CCT-38SX7C-T	77	CCT-38SX80-T		
CCT-38SX7C-TD	78	CCT-38SX80-TD		
CCT-38SX7C-TDM	79	CCT-38SX80-TDM		
CCT-38SX7C-TDMS	80	CCT-38SX80-TDMS		
CCT-38SX7C-TDS	81	CCT-38SX80-TDS		
CCT-38SX7C-TM	82	CCT-38SX80-TM		
CCT-38SX7C-TMS	83	CCT-38SX80-TMS		
CCT-38SX7C-TS	84	CCT-38SX80-TS		
	CCT-38SX7C-D CCT-38SX7C-DM CCT-38SX7C-MS CCT-38SX7C-MS CCT-38SX7C-MS CCT-38SX7C-T CCT-38SX7C-TD CCT-38SX7C-TDM CCT-38SX7C-TDMS CCT-38SX7C-TDMS CCT-38SX7C-TDMS CCT-38SX7C-TMS CCT-38SX7C-TMS CCT-38SX7C-TMS CCT-38SX7C-TMS CCT-38SX7O-D CCT-38SX7O-D CCT-38SX7O-D CCT-38SX7O-DM CCT-38SX7O-TD CCT-38SX7O-TD CCT-38SX7O-TD CCT-38SX7O-TD CCT-38SX7O-TD CCT-38SX7O-TD CCT-38SX7O-TD CCT-38SX7O-TDMS CCT-38SX7O-TDMS CCT-38SX7O-TDMS CCT-38SX7O-TDMS CCT-38SX7O-TDMS CCT-38SX7O-TDMS CCT-38SX7O-TDMS CCT-38SX7O-TDMS CCT-38SX7C-D CCT-38SX7C-D CCT-38SX7C-D CCT-38SX7C-D CCT-38SX7C-D CCT-38SX7C-TDMS	CCT-38SX7C 43 CCT-38SX7C-D 44 CCT-38SX7C-DM 45 CCT-38SX7C-MS 47 CCT-38SX7C-S 48 CCT-38SX7C-TD 50 CCT-38SX7C-TDM 51 CCT-38SX7C-TDMS 52 CCT-38SX7C-TDMS 52 CCT-38SX7C-TMS 54 CCT-38SX7C-TMS 55 CCT-38SX7C-TMS 55 CCT-38SX7C-TS 56 CCT-38SX7O-D 58 CCT-38SX7O-D 58 CCT-38SX7O-DM 59 CCT-38SX7O-MS 61 CCT-38SX7O-TD 64 CCT-38SX7O-TD 64 CCT-38SX7O-TDMS 66 CCT-38SX7O-TDMS 66 CCT-38SX7O-TMS 69 CCT-38SX7C-D 72 CCT-38SX7C-DM 73 CCT-38SX7C-MS 75 CCT-38SX7C-TD 78 CCT-38SX7C-TD 78 CCT-38SX7C-TDMS 70 CCT-38SX7C-TDMS 70 <	CCT-38SX7C 43 CCT-38SX70-D CCT-38SX7C-DM 45 CCT-38SX70-DM CCT-38SX7C-M 46 CCT-38SX70-MS CCT-38SX7C-MS 47 CCT-38SX70-MS CCT-38SX7C-S 48 CCT-38SX70-T CCT-38SX7C-TD 49 CCT-38SX70-TD CCT-38SX7C-TDM 51 CCT-38SX70-TDM CCT-38SX7C-TDMS 52 CCT-38SX70-TDMS CCT-38SX7C-TDMS 52 CCT-38SX70-TDMS CCT-38SX7C-TDMS 52 CCT-38SX70-TDMS CCT-38SX7C-TDMS 53 CCT-38SX70-TDMS CCT-38SX7C-TM 54 CCT-38SX70-TMM CCT-38SX7C-TMS 55 CCT-38SX70-TMS CCT-38SX70-TMS 56 CCT-38SX70-TMS CCT-38SX70-DM 59 CCT-38SX8C-DM CCT-38SX70-MMS 61 CCT-38SX8C-MMS CCT-38SX70-TD 64 CCT-38SX8C-TDM CCT-38SX70-TD 64 CCT-38SX8C-TDM CCT-38SX70-TDMS 66 CCT-38SX8C-TDMS CCT-38SX70-TDMS 66 CCT-38SX8C-TDMS </th <th>CCT-38SX7C 43 CCT-38SX7O-D 86 CCT-38SX7C-D 44 CCT-38SX7O-D 86 CCT-38SX7C-M 45 CCT-38SX7O-M 87 CCT-38SX7C-MS 47 CCT-38SX7O-MS 89 CCT-38SX7C-TS 48 CCT-38SX7O-T 91 CCT-38SX7C-TD 50 CCT-38SX7O-TD 92 CCT-38SX7C-TDM 51 CCT-38SX7O-TDM 93 CCT-38SX7C-TDMS 52 CCT-38SX7O-TDMS 94 CCT-38SX7C-TDMS 52 CCT-38SX7O-TDMS 94 CCT-38SX7C-TDMS 52 CCT-38SX7O-TDMS 95 CCT-38SX7C-TDMS 53 CCT-38SX7O-TDMS 95 CCT-38SX7C-TMS 54 CCT-38SX7O-TMS 97 CCT-38SX7C-TMS 55 CCT-38SX7O-TMS 97 CCT-38SX7O-TD 58 CCT-38SX8C-D 100 CCT-38SX7O-DM 59 CCT-38SX8C-D 100 CCT-38SX7O-MS 61 CCT-38SX8C-M 102 CCT-38SX7O-TD 64 CCT-38SX8C-T</th>	CCT-38SX7C 43 CCT-38SX7O-D 86 CCT-38SX7C-D 44 CCT-38SX7O-D 86 CCT-38SX7C-M 45 CCT-38SX7O-M 87 CCT-38SX7C-MS 47 CCT-38SX7O-MS 89 CCT-38SX7C-TS 48 CCT-38SX7O-T 91 CCT-38SX7C-TD 50 CCT-38SX7O-TD 92 CCT-38SX7C-TDM 51 CCT-38SX7O-TDM 93 CCT-38SX7C-TDMS 52 CCT-38SX7O-TDMS 94 CCT-38SX7C-TDMS 52 CCT-38SX7O-TDMS 94 CCT-38SX7C-TDMS 52 CCT-38SX7O-TDMS 95 CCT-38SX7C-TDMS 53 CCT-38SX7O-TDMS 95 CCT-38SX7C-TMS 54 CCT-38SX7O-TMS 97 CCT-38SX7C-TMS 55 CCT-38SX7O-TMS 97 CCT-38SX7O-TD 58 CCT-38SX8C-D 100 CCT-38SX7O-DM 59 CCT-38SX8C-D 100 CCT-38SX7O-MS 61 CCT-38SX8C-M 102 CCT-38SX7O-TD 64 CCT-38SX8C-T

^{*} X = 1 (28Vdc), 2 (15Vdc), 3 (12Vdc) and 4 (24Vdc)

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Teledyne Relays:

CCT-38S170 CCT-38S17C CCT-38S180 CCT-38S18C