

Multi-Throw DC-18 GHz/DC-22 GHz Normally Open Coaxial Switch

PART NUMBER	DESCRIPTION
CCR-38S	Commercial Normally Open Multi-throw, DC-18GHz
CR-38S	Elite Normally Open Multi-throw, DC-22GHz

The CCR-38S/CR-38S is a broadband, multi-throw, electromechanical coaxial switch designed to switch a microwave signal from a common input to any of 3, 4, 5, or 6 outputs. The characteristic impedance is 50 Ohms. The switches are small using the popular connector spacing on a 1.062" 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.





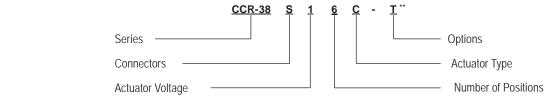
ENVIRONMENTAL AND PHYSICAL	. CHARACTERISTICS
Operating Temperature Commercial Model, CCR-38S Elite Model, CR-38S	−40°C to 65°C −55°C to 85°C
Vibration (MIL-STD-202 Method 214, Condition D, non-operating)	10 g's RMS
Shock (MIL-STD-202 Method 213, Condition D, non-operating)	500 g's
Standard Actuator Life Actuator Life w/ Additional Features	5,000,000 cycles 1,000,000 cycles
Connector Type	SMA
Humidity (Moisture Seal)	Available
Weight	6 oz. (170.1g) (max.)

ELECTRICAL CHARACTERISTICS												
Form Factor	Multi-Throw, break before make											
Frequency Range CCR-38S CR-38S	DC-18 GHz DC-22 GHz											
Characteristic Impedance	50 Ohms											
Operate Time	15 ms (max.)											
Release Time	15 ms (max.)											
Actuation Voltage Available	12 15 24 28 V											
Actuation Current, max. @ ambient	400 205 170 140 mA											

TYPICALPERFORMANCE CHARACTERISTICS											
Frequency	DC-4 GHz	4-8 GHz	8–12 GHz	12–16 GHz	16-20 GHz	20-22 GHz					
Insertion Loss, dB, typ.	0.1	0.2	0.2	0.3	0.3	0.4					
Isolation, dB, typ.	80	80	80	80	75	70					
VSWR , typ.	1.05:1	1.1:1	1.2:1	1.2:1	1.2:1	1.2:1					

For maximum limits, please see charts on pages 7-9

PART NUMBERING SYSTEM



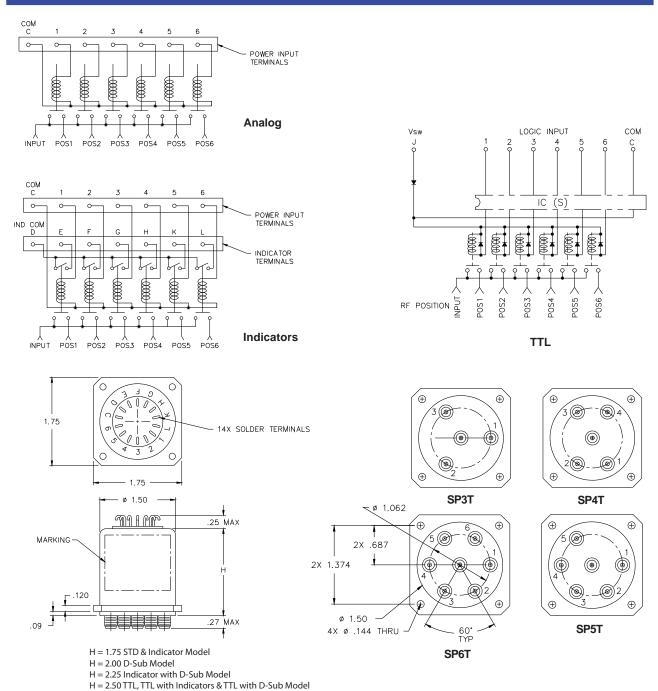
CONNECTOR	ACTUATOR VOLTAGE	NUMBER OF POSITIONS	ACTUATOR TYPE	OPTIONS
S: SMA FEMALE	1: 28 VDC NORMALLY OPEN	3: SP3T	0: NO INDICATOR CONTACTS	T: TTL DRIVERS WITH DIODES
	2: 15 VDC NORMALLY OPEN	4: SP4T	C: INDICATOR CONTACTS	D: COIL TRANSIENT SUPPRESSION DIODES
	3: 12 VDC NORMALLY OPEN	5: SP5T	D: SELF CUTOFF ONLY	S: D-SUB CONNECTOR*
	4: 24 VDC NORMALLY OPEN	6: SP6T		TD: DECODERS AND TTL DRIVERS WITH DIODES
		**SEE PARTS	LIST ON PAGE 12-13	M: MOISTURE SEAL

For additional options, please contact factory.

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



SCHEMATICS AND MECHANICAL OUTLINE

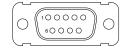


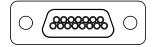
"-S OPTION" 9-PIN D-SUB OR 15-PIN D-MICRO CONNECTOR (EXAMPLE: CCR-38s160-S)

Multi-Throw DC-18 GHz/DC-22 GHz Normally Open Coaxial Switch

CONNECTOR P	INOUT FOR NO	RMALLY OPEN SI	P3T MULTI-THR	OW SWITCHES			
EXAMPLE	CR-38S130-S	CR-38S13C-S	CR-38S130-TS	38S130-TS CR-38S13C-TS		CR-38S13C-TDS	
PIN NO	2706650 9-PINS	2706650 9-PINS	2706650 9-PINS	2706650 9-pins	2706650 9-PINS	2706650 9-PINS	
INDICATOR		YES		YES		YES	
TTL			YES	YES			
DECODERS & TTL					YES	YES	
1	PORT 1	PORT 1	TTL1	TTL 1	LOGIC 1	LOGIC 1	
2	PORT 2	PORT 3	TTL 2	TTL 2 LOGIC 2		LOGIC 2	
3	PORT 3	PORT 3	TTL 3	TTL 3			
4		E INDICATOR		E INDICATOR		E INDICATOR	
5		F INDICATOR		F INDICATOR		F INDICATOR	
6		G INDICATOR		G INDICATOR		G INDICATOR	
7	COMMON	COMMON	COMMON	COMMON	COMMON	COMMON	
8	8		Vsw	Vsw	Vsw	Vsw	
9		D INDICATOR (COM)		D INDICATOR (COM)		D INDICATOR (COM)	

CONNECTOR P	INOUT FOR NO	RMALLY OPEN SI	P4T MULTI-THR	OW SWITCHES			
EXAMPLE	CR-38S140-S	CR-38S14C-S	CR-38S140-TS	CR-38S14C-TS	CR-38S140-TDS	CR-38S14C-TDS	
PIN NO	2706650 9-PINS	C00-166-4 (CCR) 2706650 2707572 (CCT) 9-PINS		C00-166-4 (CCR) 2707572 (CCT)	2706650 9-PINS	C00-166-4 (CCR) 2707572 (CCT)	
INDICATOR		YES		YES		YES	
TTL			YES	YES			
DECODERS & TTL					YES	YES	
1	PORT 1	PORT 1	TTL1	TTL 1	LOGIC 1	LOGIC 1	
2	PORT 2	PORT 3	TTL 2	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			
5							
6							
7	COMMON	COMMON	COMMON	COMMON	COMMON	COMMON	
8			Vsw	Vsw	Vsw	Vsw	
9		D INDICATOR (COM)		D INDICATOR (COM)		D INDICATOR (COM)	
10		E INDICATOR		E INDICATOR		E INDICATOR	
11		F INDICATOR		F INDICATOR		F INDICATOR	
12		G INDICATOR		G INDICATOR		G INDICATOR	
13		H INDICATOR		H INDICATOR		H INDICATOR	
14							
15							





9-PIN D-SUB CONNECTOR

15-PIN D-MICRO CONNECTOR

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CONNECTOR F	PINOUT FOR NO	DRMALLY OPEN S	P5T MULTI-THR	OW SWITCHES			
EXAMPLE	CR-38S150-S	CR-38S15C-S	CR-38S150-TS	CR-38S15C-TS	CR-38S150-TDS	CR-38S15C-TDS	
		C00-166-4 (CCR) 2707572 (CCT)	2706650 9-PINS	C00-166-4 (CCR) 2707572 (CCT)	2706650 9-PINS	C00-166-4 (CCR) 2707572 (CCT)	
INDICATOR		YES		YES		YES	
TTL	1		YES	YES			
DECODERS & TTL					YES	YES	
1	PORT 1	PORT 1	TTL1	TTL1	LOGIC 1	LOGIC 1	
2	PORT 2	PORT 3	TTL2	TTL 2	LOGIC 2	LOGIC 2	
3	PORT 3	PORT 3	TTL3	TTL3	LOGIC 3	LOGIC 3	
4	PORT 4	PORT 4	TTL4	TTL4			
5	PORT 5	PORT 5	TTL 5	TTL5			
6							
7	COMMON	COMMON	COMMON	COMMON	COMMON	COMMON	
8			Vsw	Vsw	Vsw	Vsw	
9	1	D INDICATOR (COM)		D INDICATOR (COM)		D INDICATOR (COM)	
10		E INDICATOR		E INDICATOR		E INDICATOR	
11		F INDICATOR		F INDICATOR		F INDICATOR	
12		G INDICATOR		G INDICATOR		G INDICATOR	
13		H INDICATOR		H INDICATOR		H INDICATOR	
14		K INDICATOR		K INDICATOR		K INDICATOR	
15							

CONNECTOR P	INOUT FOR NO	RMALLY OPEN SI	P6T MULTI-THR	OW SWITCHES			
EXAMPLE	CR-38S160-S	CR-38S16C-S	CR-38S160-TS CR-38S16C-TS		CR-38S160-TDS	CR-38S16C-TDS	
PIN NO	2706650 C00-166-4 (CCR) 2706650 9-pins 2707572 (CCT) 9-pins			C00-166-4 (CCR) 2707572 (CCT)	2706650 9-pins	C00-166-4 (CCR) 2707572 (CCT)	
INDICATOR		YES		YES		YES	
TTL			YES	YES			
DECODERS & TTL					YES	YES	
1	PORT 1	PORT 1	TTL1	TTL 1	LOGIC 1	LOGIC 1	
2	PORT 2	PORT 3	TTL 2	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	TTL5	TTL5			
6	PORT 6	PORT 6	TTL6	TTL 6			
7	COMMON	COMMON	COMMON	COMMON	COMMON	COMMON	
8			Vsw	Vsw	Vsw	Vsw	
9		D INDICATOR (COM)		D INDICATOR (COM)		D INDICATOR (COM)	
10		E INDICATOR		E INDICATOR		E INDICATOR	
11		F INDICATOR		F INDICATOR		F INDICATOR	
12		G INDICATOR		G INDICATOR		G INDICATOR	
13		H INDICATOR		H INDICATOR		H INDICATOR	
14 K INDICA		K INDICATOR		K INDICATOR		K INDICATOR	
15		L INDICATOR		L INDICATOR		L INDICATOR	



	TRUTH TABLE Normally Open CCR-38SX3C-T												
	gic out		F	RF Path Indicator Switches									
1	2	3	J1	J2	J3		Е	F	G				
1	0	0	On	Off	Off		С	0	0				
0	1	0	Off	On	Off		0	С	0				
0	0	1	Off	Off	On		0	0	С				

TRUTH TABLE Normally Open CCR-38SX3C-TD											
Log		I			ndicato witche						
1	2	J1	J2	J3		Е	F	G			
0	0	On	Off	Off		С	0	0			
1	0	Off	On	Off	-	0	С	0			
0	1	Off	Off	On		0	0	С			
1	1	Off	Off	Off	-	0	0	0			

	TRUTH TABLE Normally Open CCR-38SX4C-T													
	Lo	ogic Inp	out			RF Path					Indicator Switches			
	1	2	3	4		J1	J2	J3	J4		Е	F	G	Н
Ī	1	0	0	0		On	Off	Off	Off		С	0	0	0
_	0	1	0	0		Off	On	Off	Off		0	С	0	0
	0	0	1	0		Off	Off	On	Off		0	0	С	0
	0	0	0	1		Off	Off	Off	On		0	0	0	С

	TRUTH TABLE Normally Open CCR-38SX4C-TD										
Logic Input RF Path										cator ches	
1	2	3	J1	J2	J3	J4		Е	F	G	Н
0	0	0	On	Off	Off	Off		С	0	0	0
1	0	0	Off	On	Off	Off		0	С	0	0
0	1	0	Off	Off	On	Off		0	0	С	0
1	1	0	Off	Off	Off	On		0	0	0	С
1	1	1	Off	Off	Off	Off		0	0	0	0

Multi-Throw DC-18 GHz/DC-22 GHz Normally Open Coaxial Switch



	TH TAE		ormally	Open										
Lo	gic Inp	out				R	RF Pat	:h		In	dicat	or Sv	vitche	es
1	2	3	4	5	J1	J2	J3	J4	J5	Е	F	G	Н	K
1	0	0	0	0	On	Off	Off	Off	Off	С	0	0	0	0
0	1	0	0	0	Off	On	Off	Off	Off	0	С	0	0	0
0	0	1	0	0	Off	Off	On	Off	Off	0	0	С	0	0
0	0	0	1	0	Off	Off	Off	On	Off	0	0	0	С	0
0	0	0	0	1	Off	Off	Off	Off	On	0	0	0	0	С

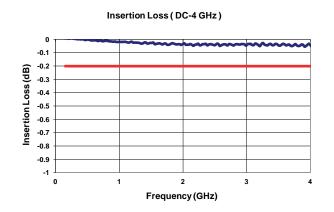
	TH TAE	BLE No 5C-TD	rmal	ly C	Open								
Lo	gic Inp	out			R	F Pat	h		In	dicat	or Sv	vitch	es
1	2	3	J	1	J2	J3	J4	J5	Е	F	G	Н	K
0	0	0	С	n	Off	Off	Off	Off	С	0	0	0	0
1	0	0	С	ff	On	Off	Off	Off	0	С	0	0	0
0	1	0	С	ff	Off	On	Off	Off	0	0	С	0	0
1	1	0	С	ff	Off	Off	On	Off	0	0	0	С	0
0	0	1	С	ff	Off	Off	Off	On	0	0	0	0	С
1	1	1	С	ff	Off	Off	Off	Off	0	0	0	0	0

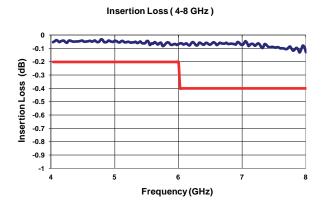
	TH TAE		ormally	Open														
Lo	gic Inp	out						RFI	Path					Indic	ator	Swit	ches	;
1	2	3	4	5	6	J1	J2	J3	J4	J5	J6		Е	F	G	Н	K	L
1	0	0	0	0	0	On	Off	Off	Off	Off	Off	Ī	С	0	0	0	0	0
0	1	0	0	0	0	Off	On	Off	Off	Off	Off		0	С	0	0	0	0
0	0	1	0	0	0	Off	Off	On	Off	Off	Off		0	0	С	0	0	0
0	0	0	1	0	0	Off	Off	Off	On	Off	Off		0	0	0	С	0	0
0	0	0	0	1	0	Off	Off	Off	Off	On	Off		0	0	0	0	С	0
0	0	0	0	0	1	Off	Off	Off	Off	Off	On		0	0	0	0	0	С

	H TAE		rmally (Open										
Lo	gic Inp	ut			RF I	Path				Indic	ator	Swit	ches	;
1	2	3	J1	J2	J3	J4	J5	J6	Е	F	G	Н	K	L
0	0	0	On	Off	Off	Off	Off	Off	С	0	0	0	0	0
1	0	0	Off	On	Off	Off	Off	Off	0	С	0	0	0	0
0	1	0	Off	Off	On	Off	Off	Off	0	0	С	0	0	0
1	1	0	Off	Off	Off	On	Off	Off	0	0	0	С	0	0
0	0	1	Off	Off	Off	Off	On	Off	0	0	0	0	С	0
1	0	1	Off	Off	Off	Off	Off	On	0	0	0	0	0	С
1	1	1	Off	Off	Off	Off	Off	Off	0	0	0	0	0	0

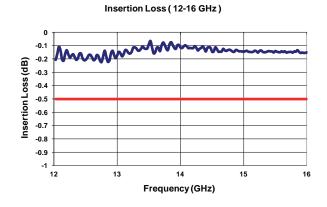
Multi-Throw DC-18 GHz/DC-22 GHz Normally Open Coaxial Switch

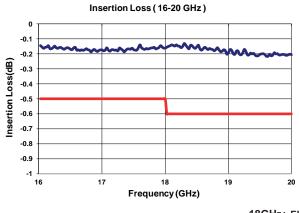
TYPICAL NARROWBAND RF INSERTION LOSS PERFORMANCE CURVES

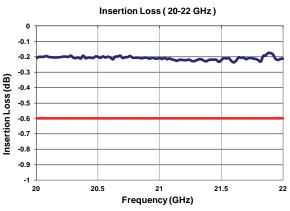












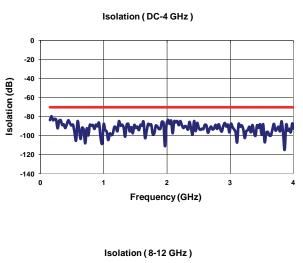
18GHz+ ELITE MODEL ONLY

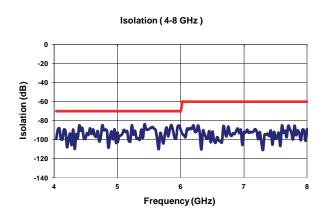
TYPICAL

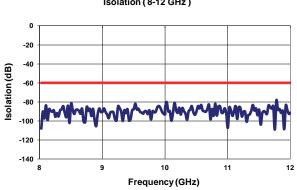
MAXIMUM TEST LIMIT

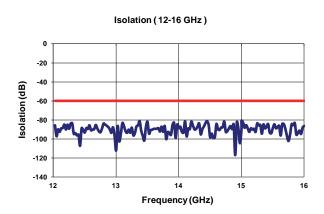


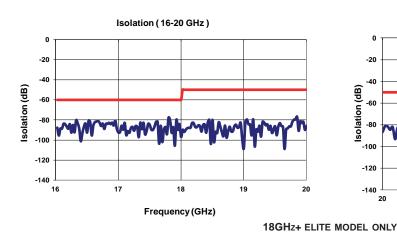
TYPICAL NARROWBAND RF ISOLATION PERFORMANCE CURVES

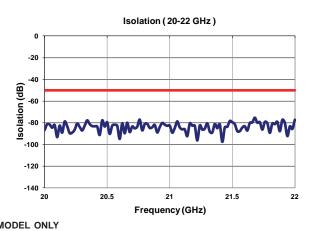










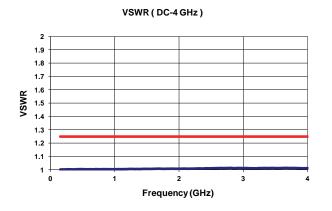


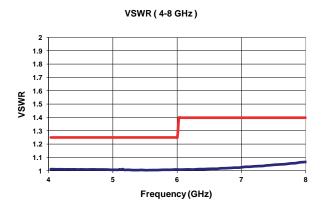
TYPICAL

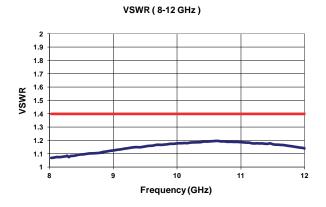
MAXIMUM TEST LIMIT

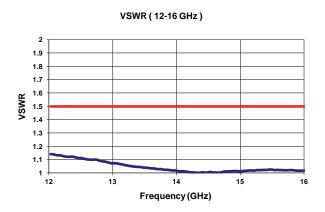
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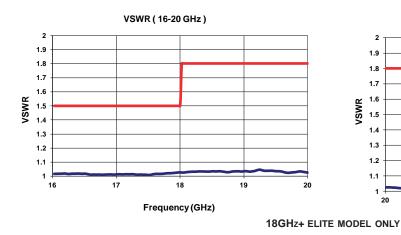
TYPICAL NARROWBAND RF VSWR PERFORMANCE CURVES

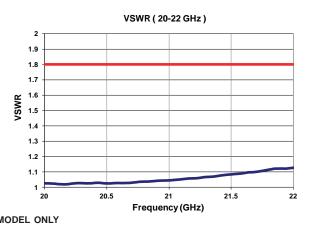












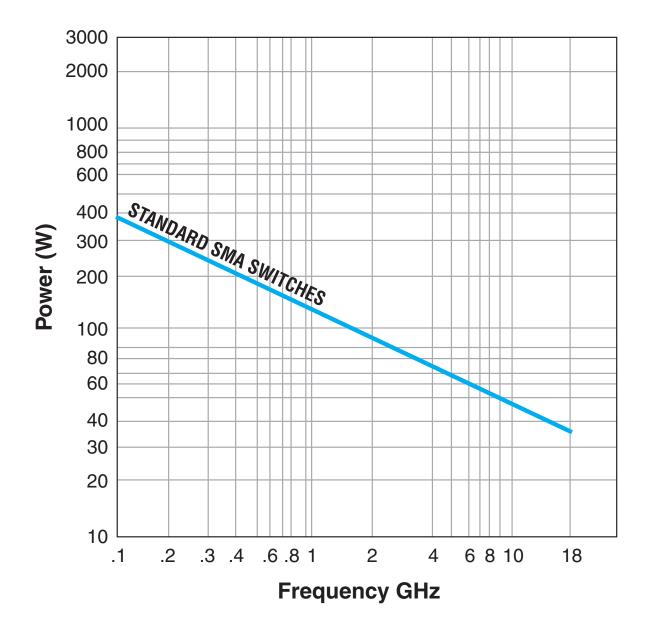
TYPICAL

MAXIMUM TEST LIMIT



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.

Multi-Throw DC-18 GHz/DC-22 GHz 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 CCR-38 can switch a microwave signal to any of 2,3,4,5 or 6 output 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	−96 dBm	–115 dBm
Positions	–139 dBc	–158 dBc

Series CCR-38S/CR-38S Multi-Throw DC-18 GHz/DC-22 GHz

Normally Open Coaxial Switch



NORMALLY OPEN CCR-38S/CR-38S PART NUMBER LIST

	Part No.		PART No.		Part No.		PART No.
1	CCR-38SX3C	43	CR-38SX3O	85	CR-38SX4C	127	CCR-38SX5O
2	CCR-38SX3C-D	44	CR-38SX3O-D	86	CR-38SX4C-D	128	CCR-38SX5O-D
3	CCR-38SX3C-DM	45	CR-38SX3O-DM	87	CR-38SX4C-DM	129	CCR-38SX5O-DM
4	CCR-38SX3C-M	46	CR-38SX3O-M	88	CR-38SX4C-M	130	CCR-38SX5O-M
5	CCR-38SX3C-MS	47	CR-38SX3O-MS	89	CR-38SX4C-MS	131	CCR-38SX5O-MS
6	CCR-38SX3C-S	48	CR-38SX3O-S	90	CR-38SX4C-S	132	CCR-38SX5O-S
7	CCR-38SX3C-T	49	CR-38SX3O-T	91	CR-38SX4C-T	133	CCR-38SX5O-T
8	CCR-38SX3C-TD	50	CR-38SX3O-TD	92	CR-38SX4C-TD	134	CCR-38SX5O-TD
9	CCR-38SX3C-TDM	51	CR-38SX3O-TDM	93	CR-38SX4C-TDM	135	CCR-38SX5O-TDM
10	CCR-38SX3C-TDMS	52	CR-38SX3O-TDMS	94	CR-38SX4C-TDMS	136	CCR-38SX5O-TDMS
11	CCR-38SX3C-TDS	53	CR-38SX3O-TDS	95	CR-38SX4C-TDS	137	CCR-38SX5O-TDS
12	CCR-38SX3C-TM	54	CR-38SX3O-TM	96	CR-38SX4C-TM	138	CCR-38SX5O-TM
13	CCR-38SX3C-TMS	55	CR-38SX3O-TMS	97	CR-38SX4C-TMS	139	CCR-38SX5O-TMS
14	CCR-38SX3C-TS	56	CR-38SX3O-TS	98	CR-38SX4C-TS	140	CCR-38SX5O-TS
15	CCR-38SX3O	57	CCR-38SX4C	99	CR-38SX4O	141	CR-38SX5C
16	CCR-38SX3O-D	58	CCR-38SX4C-D	100	CR-38SX4O-D	142	CR-38SX5C-D
17	CCR-38SX3O-DM	59	CCR-38SX4C-DM	101	CR-38SX4O-DM	143	CR-38SX5C-DM
18	CCR-38SX3O-M	60	CCR-38SX4C-M	102	CR-38SX4O-M	144	CR-38SX5C-M
19	CCR-38SX3O-MS	61	CCR-38SX4C-MS	103	CR-38SX4O-MS	145	CR-38SX5C-MS
20	CCR-38SX3O-S	62	CCR-38SX4C-S	104	CR-38SX4O-S	146	CR-38SX5C-S
21	CCR-38SX3O-T	63	CCR-38SX4C-T	105	CR-38SX4O-T	147	CR-38SX5C-T
22	CCR-38SX3O-TD	64	CCR-38SX4C-TD	106	CR-38SX4O-TD	148	CR-38SX5C-TD
23	CCR-38SX3O-TDM	65	CCR-38SX4C-TDM	107	CR-38SX4O-TDM	149	CR-38SX5C-TDM
24	CCR-38SX3O-TDMS	66	CCR-38SX4C-TDMS	108	CR-38SX4O-TDMS	150	CR-38SX5C-TDMS
25	CCR-38SX3O-TDS	67	CCR-38SX4C-TDS	109	CR-38SX4O-TDS	151	CR-38SX5C-TDS
26	CCR-38SX3O-TM	68	CCR-38SX4C-TM	110	CR-38SX4O-TM	152	CR-38SX5C-TM
27	CCR-38SX3O-TMS	69	CCR-38SX4C-TMS	111	CR-38SX4O-TMS	153	CR-38SX5C-TMS
28	CCR-38SX3O-TS	70	CCR-38SX4C-TS	112	CR-38SX4O-TS	154	CR-38SX5C-TS
29	CR-38SX3C	71	CCR-38SX4O	113	CCR-38SX5C	155	CR-38SX5O
30	CR-38SX3C-D	72	CCR-38SX4O-D	114	CCR-38SX5C-D	156	CR-38SX5O-D
31	CR-38SX3C-DM	73	CCR-38SX4O-DM	115	CCR-38SX5C-DM	157	CR-38SX5O-DM
32	CR-38SX3C-M	74	CCR-38SX4O-M	116	CCR-38SX5C-M	158	CR-38SX5O-M
33	CR-38SX3C-MS	75	CCR-38SX4O-MS	117	CCR-38SX5C-MS	159	CR-38SX5O-MS
34	CR-38SX3C-S	76	CCR-38SX4O-S	118	CCR-38SX5C-S	160	CR-38SX5O-S
35	CR-38SX3C-T	77	CCR-38SX4O-T	119	CCR-38SX5C-T	161	CR-38SX5O-T
36	CR-38SX3C-TD	78	CCR-38SX4O-TD	120	CCR-38SX5C-TD	162	CR-38SX5O-TD
37	CR-38SX3C-TDM	79	CCR-38SX4O-TDM	121	CCR-38SX5C-TDM	163	CR-38SX5O-TDM
38	CR-38SX3C-TDMS	80	CCR-38SX4O-TDMS	122	CCR-38SX5C-TDMS	164	CR-38SX5O-TDMS
39	CR-38SX3C-TDS	81	CCR-38SX4O-TDS	123	CCR-38SX5C-TDS	165	CR-38SX5O-TDS
40	CR-38SX3C-TM	82	CCR-38SX4O-TM	124	CCR-38SX5C-TM	166	CR-38SX5O-TM
41	CR-38SX3C-TMS	83	CCR-38SX4O-TMS	125	CCR-38SX5C-TMS	167	CR-38SX5O-TMS
42	CR-38SX3C-TS	84	CCR-38SX4O-TS	126	CCR-38SX5C-TS	168	CR-38SX5O-TS

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



NORMALLY OPEN CCR-38S/CR-38S PART NUMBER LIST

	Part No.		Part No.
169	CCR-38SX6C	211	CR-38SX6O
170	CCR-38SX6C-D	212	CR-38SX6O-D
171	CCR-38SX6C-DM	213	CR-38SX6O-DM
172	CCR-38SX6C-M	214	CR-38SX6O-M
173	CCR-38SX6C-MS	215	CR-38SX6O-MS
174	CCR-38SX6C-S	216	CR-38SX6O-S
175	CCR-38SX6C-T	217	CR-38SX6O-T
176	CCR-38SX6C-TD	218	CR-38SX6O-TD
177	CCR-38SX6C-TDM	219	CR-38SX6O-TDM
178	CCR-38SX6C-TDMS	220	CR-38SX6O-TDMS
179	CCR-38SX6C-TDS	221	CR-38SX6O-TDS
180	CCR-38SX6C-TM	222	CR-38SX6O-TM
181	CCR-38SX6C-TMS	223	CR-38SX6O-TMS
182	CCR-38SX6C-TS	224	CR-38SX6O-TS
183	CCR-38SX6O		
184	CCR-38SX6O-D		
185	CCR-38SX6O-DM		
186	CCR-38SX6O-M		
187	CCR-38SX6O-MS		
188	CCR-38SX6O-S		
189	CCR-38SX6O-T		
190	CCR-38SX6O-TD		
191	CCR-38SX6O-TDM		
192	CCR-38SX6O-TDMS		
193	CCR-38SX6O-TDS		
194	CCR-38SX6O-TM		
195	CCR-38SX6O-TMS		
196	CCR-38SX6O-TS		
197	CR-38SX6C		
198	CR-38SX6C-D		
199	CR-38SX6C-DM		
200	CR-38SX6C-M		
201	CR-38SX6C-MS		
202	CR-38SX6C-S		
203	CR-38SX6C-T		
204	CR-38SX6C-TD		
205	CR-38SX6C-TDM		
206	CR-38SX6C-TDMS		
207	CR-38SX6C-TDS		
208	CR-38SX6C-TM		
209	CR-38SX6C-TMS		
210	CR-38SX6C-TS		

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

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