



| PART NUMBER | DESCRIPTION |
|-------------|---|
| CCR-38S | Commercial Normally Open Multi-throw, DC-12 GHz |
| CR-38S | Elite Normally Open Multi-throw, DC-12 GHz |

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 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.

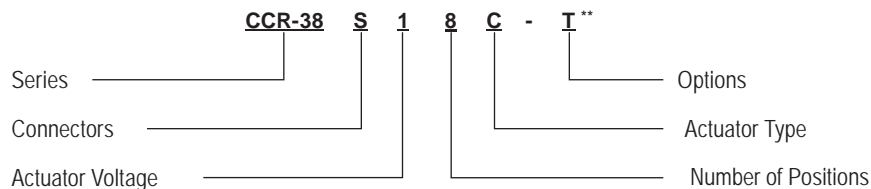


| ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS | |
|--|-----------------------|
| Operating Temperature | |
| Commercial Model, CCR-38S | -25°C to 65°C |
| Elite Model, CR-38S | -40°C to 85°C |
| Vibration (MIL-STD-202 Method 214, Condition D, non-operating) | 10 g's RMS |
| Shock (MIL-STD-202 Method 213, Condition D, non-operating) | 500 g's |
| Standard Actuator Life | 3,000,000 cycles |
| Actuator Life w/ Additional Features | 1,000,000 cycles |
| Connector Type | SMA |
| Humidity (Moisture Seal) | Available |
| Weight | 9 oz. (255.2G) (max.) |

| ELECTRICAL CHARACTERISTICS | |
|-----------------------------------|--------------------------------|
| Form Factor | Multi-Throw, break before make |
| Frequency Range | DC–12 GHz |
| Characteristic Impedance | 50 Ohms |
| Operate Time | 20 ms (max.) |
| Release Time | 20 ms (max.) |
| Actuation Voltage Available | 12 15 24 28 V |
| Actuation Current, max. @ ambient | 560 750 345 435 mA |

| RF SPECIFICATIONS | | | |
|--------------------------|----------|---------|----------|
| Frequency | DC–3 GHz | 3–6 GHz | 6–12 GHz |
| Insertion Loss, dB, max. | 0.20 | 0.20 | 0.40 |
| Isolation, dB, min. | 70 | 70 | 60 |
| VSWR , max. | 1.30:1 | 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 | | | R: POSITIVE + COMMON |
| | 4: 24 VDC NORMALLY OPEN | | | S: D-SUB CONNECTOR* |
| | | | | TD: DECODERS AND TTL DRIVERS WITH DIODES |
| | | | | M: MOISTURE SEAL |

**SEE PARTS LIST ON PAGE 10-11

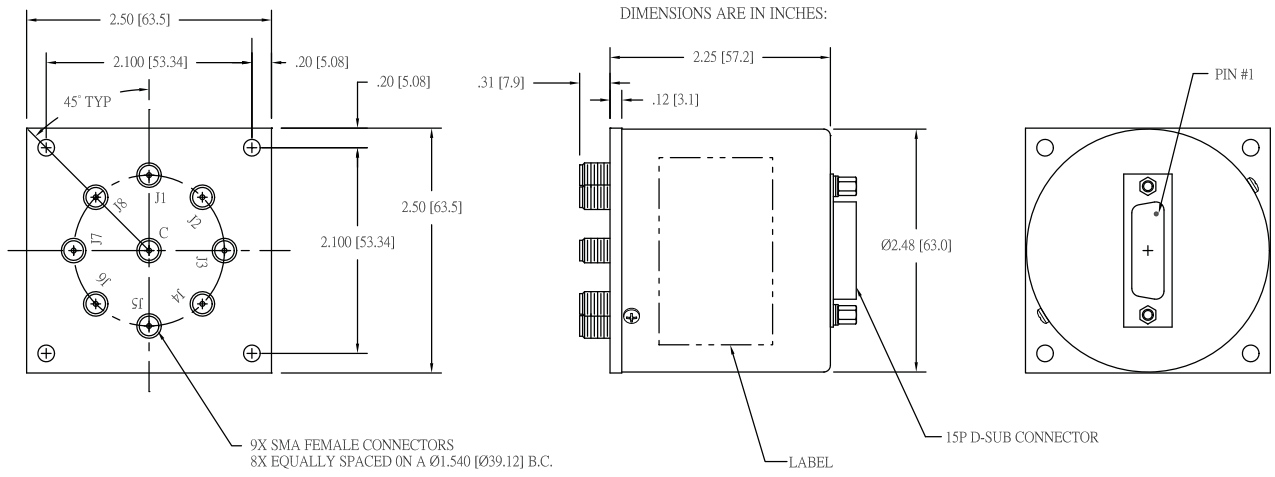
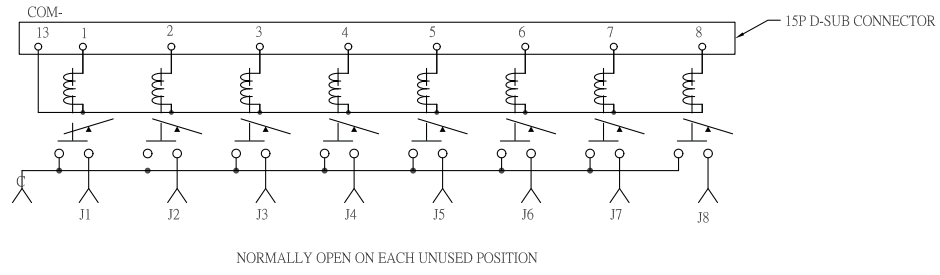
For additional options, please contact factory.

* D-Sub Connector may be 15 or 25 pin depending on number of throws. (See Connector Pinout page)

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

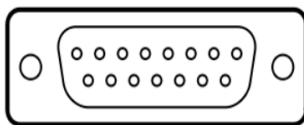


SCHEMATICS AND MECHANICAL OUTLINE

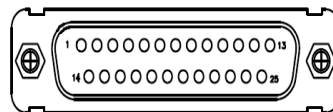


“-S OPTION” 15-PIN D-SUB OR 25-PIN D-SUB CONNECTOR (EXAMPLE: CCR-38S180-S)

| CONNECTOR PINOUT FOR NORMALLY OPEN SP7T MULTI-THROW SWITCHES | | | | | | |
|--|--------------|-------------------|---------------|-------------------|----------------|-------------------|
| EXAMPLE | CCR-38S170-S | CCR-38S17C-S | CCR-38S170-TS | CR-18S17C-TS | CCR-38S170-TDS | CCR-38S17C-TDS |
| PIN NO | 15-PINS | 25-PINS | 15-PINS | 25-PINS | 15-PINS | 25-PINS |
| INDICATOR | | YES | | YES | | YES |
| TTL | | | YES | YES | | |
| DECODERS & TTL | | | | | YES | YES |
| 1 | PORT 1 | PORT 1 | TTL 1 | 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 | LOGIC 3 | LOGIC 3 |
| 4 | PORT 4 | PORT 4 | TTL 4 | TTL 4 | | |
| 5 | PORT 5 | PORT 5 | TTL 5 | TTL 5 | | |
| 6 | PORT 6 | PORT 6 | TTL 6 | TTL 6 | | |
| 7 | PORT 7 | PORT 7 | TTL 7 | TTL 7 | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | Vsw | Vsw | Vsw | Vsw |
| 12 | | | | | | |
| 13 | COMMON | COMMON | COMMON | COMMON | COMMON | COMMON |
| 14 | | | | | | |
| 15 | | D INDICATOR (COM) | | D INDICATOR (COM) | | D INDICATOR (COM) |
| 16 | | E INDICATOR | | E INDICATOR | | E INDICATOR |
| 17 | | F INDICATOR | | F INDICATOR | | F INDICATOR |
| 18 | | G INDICATOR | | G INDICATOR | | G INDICATOR |
| 19 | | H INDICATOR | | H INDICATOR | | H INDICATOR |
| 20 | | K INDICATOR | | K INDICATOR | | K INDICATOR |
| 21 | | L INDICATOR | | L INDICATOR | | L INDICATOR |
| 22 | | M INDICATOR | | M INDICATOR | | M INDICATOR |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |



15-PIN D-SUB CONNECTOR



25-PIN D-SUB CONNECTOR

Series CCR-38S/CR-38S
Multi-Throw DC–12 GHz, SP7T & SP8T
Normally Open Coaxial Switch



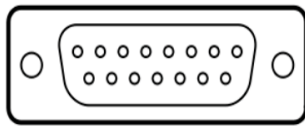
SP7T TRUTH TABLE Normally Open
CCR-38SX7C-T

| Logic Input | | | | | | | RF Path | | | | | | | Indicator Switches | | | | | | |
|-------------|---|---|---|---|---|---|---------|-----|-----|-----|-----|-----|-----|--------------------|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | J1 | J2 | J3 | J4 | J5 | J6 | J7 | E | F | G | H | K | L | M |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | On | Off | Off | Off | Off | Off | Off | C | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | Off | On | Off | Off | Off | Off | Off | 0 | C | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | Off | Off | On | Off | Off | Off | Off | 0 | 0 | C | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 | 0 | 0 | Off | Off | Off | On | Off | Off | Off | 0 | 0 | 0 | C | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1 | 0 | 0 | Off | Off | Off | Off | On | Off | Off | 0 | 0 | 0 | 0 | C | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 | Off | Off | Off | Off | Off | On | Off | 0 | 0 | 0 | 0 | 0 | C | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | Off | Off | Off | Off | Off | Off | On | 0 | 0 | 0 | 0 | 0 | 0 | C |

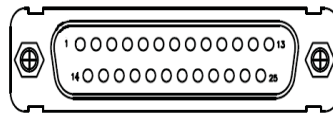
TRUTH TABLE Normally Open
CCR-38SX7C-TD

| Logic Input | | | RF Path | | | | | | | Indicator Switches | | | | | | |
|-------------|---|---|---------|-----|-----|-----|-----|-----|-----|--------------------|---|---|---|---|---|---|
| 1 | 2 | 3 | J1 | J2 | J3 | J4 | J5 | J6 | J7 | E | F | G | H | K | L | M |
| 0 | 0 | 0 | On | Off | Off | Off | Off | Off | Off | C | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | Off | On | Off | Off | Off | Off | Off | 0 | C | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | Off | Off | On | Off | Off | Off | Off | 0 | 0 | C | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | Off | Off | Off | On | Off | Off | Off | 0 | 0 | 0 | C | 0 | 0 | 0 |
| 0 | 0 | 1 | Off | Off | Off | Off | On | Off | Off | 0 | 0 | 0 | 0 | C | 0 | 0 |
| 1 | 0 | 1 | Off | Off | Off | Off | Off | On | Off | 0 | 0 | 0 | 0 | 0 | C | 0 |
| 0 | 1 | 1 | Off | Off | Off | Off | Off | Off | On | 0 | 0 | 0 | 0 | 0 | 0 | C |
| 1 | 1 | 1 | Off | Off | Off | Off | Off | Off | Off | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| CONNECTOR PINOUT FOR NORMALLY OPEN SP8T MULTI-THROW SWITCHES | | | | | | |
|--|--------------|-------------------|---------------|-------------------|----------------|-------------------|
| EXAMPLE | CCR-38S180-S | CCR-38S18C-S | CCR-38S180-TS | CCR-38S18C-TS | CCR-38S180-TDS | CCR-38S18C-TDS |
| PIN NO | 15-PINS | 25-PINS | 15-PINS | 25-PINS | 15-PINS | 25-PINS |
| INDICATOR | | YES | | YES | | YES |
| TTL | | | YES | YES | | |
| DECODERS & TTL | | | | | YES | YES |
| 1 | PORT 1 | PORT 1 | TTL 1 | 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 | LOGIC 3 | LOGIC 3 |
| 4 | PORT 4 | PORT 4 | TTL 4 | TTL 4 | LOGIC 4 | LOGIC 4 |
| 5 | PORT 5 | PORT 5 | TTL 5 | TTL 5 | | |
| 6 | PORT 6 | PORT 6 | TTL 6 | TTL 6 | | |
| 7 | PORT 7 | PORT 7 | TTL 7 | TTL 7 | | |
| 8 | PORT 8 | PORT 8 | TTL 8 | TTL 8 | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | Vsw | Vsw | Vsw | Vsw |
| 12 | | | | | | |
| 13 | COMMON | COMMON | COMMON | COMMON | COMMON | COMMON |
| 14 | | | | | | |
| 15 | | D INDICATOR (COM) | | D INDICATOR (COM) | | D INDICATOR (COM) |
| 16 | | E INDICATOR | | E INDICATOR | | E INDICATOR |
| 17 | | F INDICATOR | | F INDICATOR | | F INDICATOR |
| 18 | | G INDICATOR | | G INDICATOR | | G INDICATOR |
| 19 | | H INDICATOR | | H INDICATOR | | H INDICATOR |
| 20 | | K INDICATOR | | K INDICATOR | | K INDICATOR |
| 21 | | L INDICATOR | | L INDICATOR | | L INDICATOR |
| 22 | | M INDICATOR | | M INDICATOR | | M INDICATOR |
| 23 | | N INDICATOR | | N INDICATOR | | N INDICATOR |
| 24 | | | | | | |
| 25 | | | | | | |



15-PIN D-SUB CONNECTOR



25-PIN D-SUB CONNECTOR

Series CCR-38S/CR-38S
Multi-Throw DC–12 GHz, SP7T & SP8T
Normally Open Coaxial Switch



SP8T TRUTH TABLE Normally Open
CCR-38SX8C-T

| Logic Input | | | | | | | | RF Path | | | | | | | | Indicator Switches | | | | | | | |
|-------------|---|---|---|---|---|---|---|---------|-----|-----|-----|-----|-----|-----|-----|--------------------|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | J1 | J2 | J3 | J4 | J5 | J6 | J7 | J8 | E | F | G | H | K | L | M | N |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | On | Off | Off | Off | Off | Off | Off | Off | C | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | Off | On | Off | Off | Off | Off | Off | Off | 0 | C | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | Off | Off | On | Off | Off | Off | Off | Off | 0 | 0 | C | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | Off | Off | Off | On | Off | Off | Off | Off | 0 | 0 | 0 | C | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | Off | Off | Off | Off | On | Off | Off | Off | 0 | 0 | 0 | 0 | C | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | Off | Off | Off | Off | Off | On | Off | Off | 0 | 0 | 0 | 0 | 0 | C | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | Off | Off | Off | Off | Off | Off | On | Off | 0 | 0 | 0 | 0 | 0 | 0 | C | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | Off | Off | Off | Off | Off | Off | Off | On | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C |

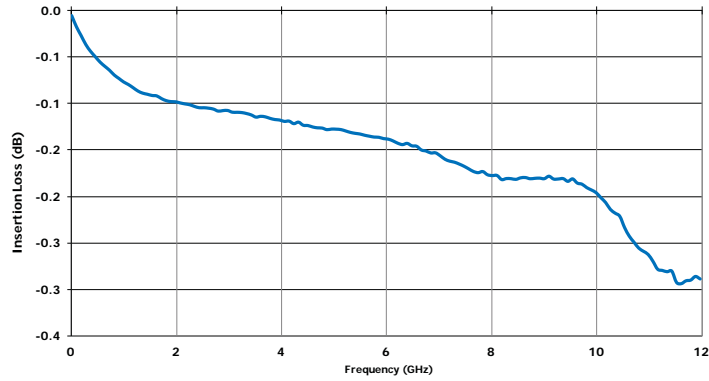
TRUTH TABLE Normally Open
CCR-38SX8C-TD

| Logic Input | | | | RF Path | | | | | | | | Indicator Switches | | | | | | | |
|-------------|---|---|---|---------|-----|-----|-----|-----|-----|-----|-----|--------------------|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | J1 | J2 | J3 | J4 | J5 | J6 | J7 | J8 | E | F | G | H | K | L | M | N |
| 0 | 0 | 0 | 0 | On | Off | Off | Off | Off | Off | Off | Off | C | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | Off | On | Off | Off | Off | Off | Off | Off | 0 | C | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | Off | Off | On | Off | Off | Off | Off | Off | 0 | 0 | C | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 0 | Off | Off | Off | On | Off | Off | Off | Off | 0 | 0 | 0 | C | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | Off | Off | Off | Off | On | Off | Off | Off | 0 | 0 | 0 | 0 | C | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | Off | Off | Off | Off | Off | On | Off | Off | 0 | 0 | 0 | 0 | 0 | C | 0 | 0 |
| 0 | 1 | 1 | 0 | Off | Off | Off | Off | Off | Off | On | Off | 0 | 0 | 0 | 0 | 0 | 0 | C | 0 |
| 1 | 1 | 1 | 0 | Off | Off | Off | Off | Off | Off | Off | On | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C |
| 0 | 0 | 0 | 1 | Off | Off | Off | Off | Off | Off | Off | Off | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

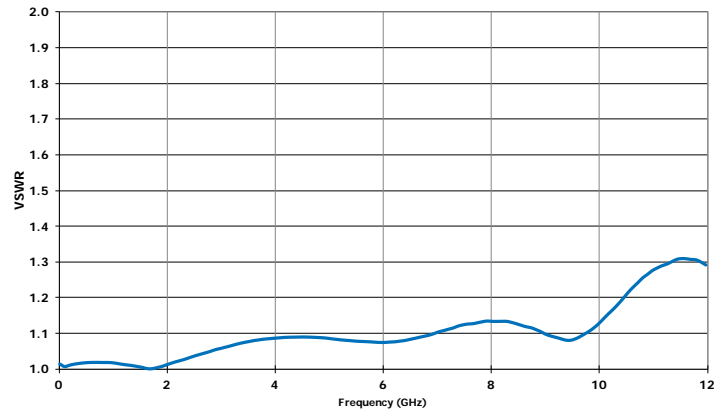
RF NOTES

TYPICAL RF PERFORMANCE CURVES

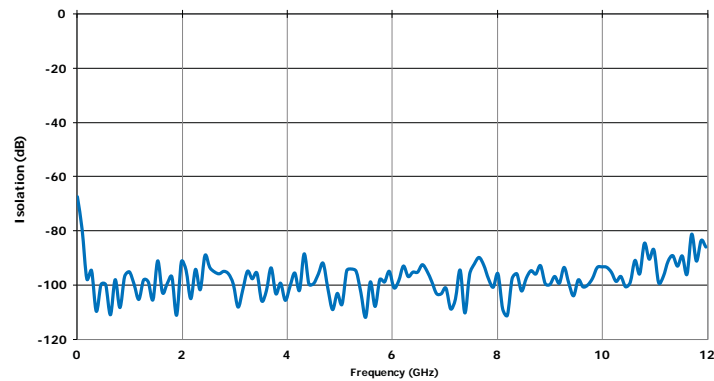
Insertion Loss (DC-12GHz)



VSWR (DC-12GHz)

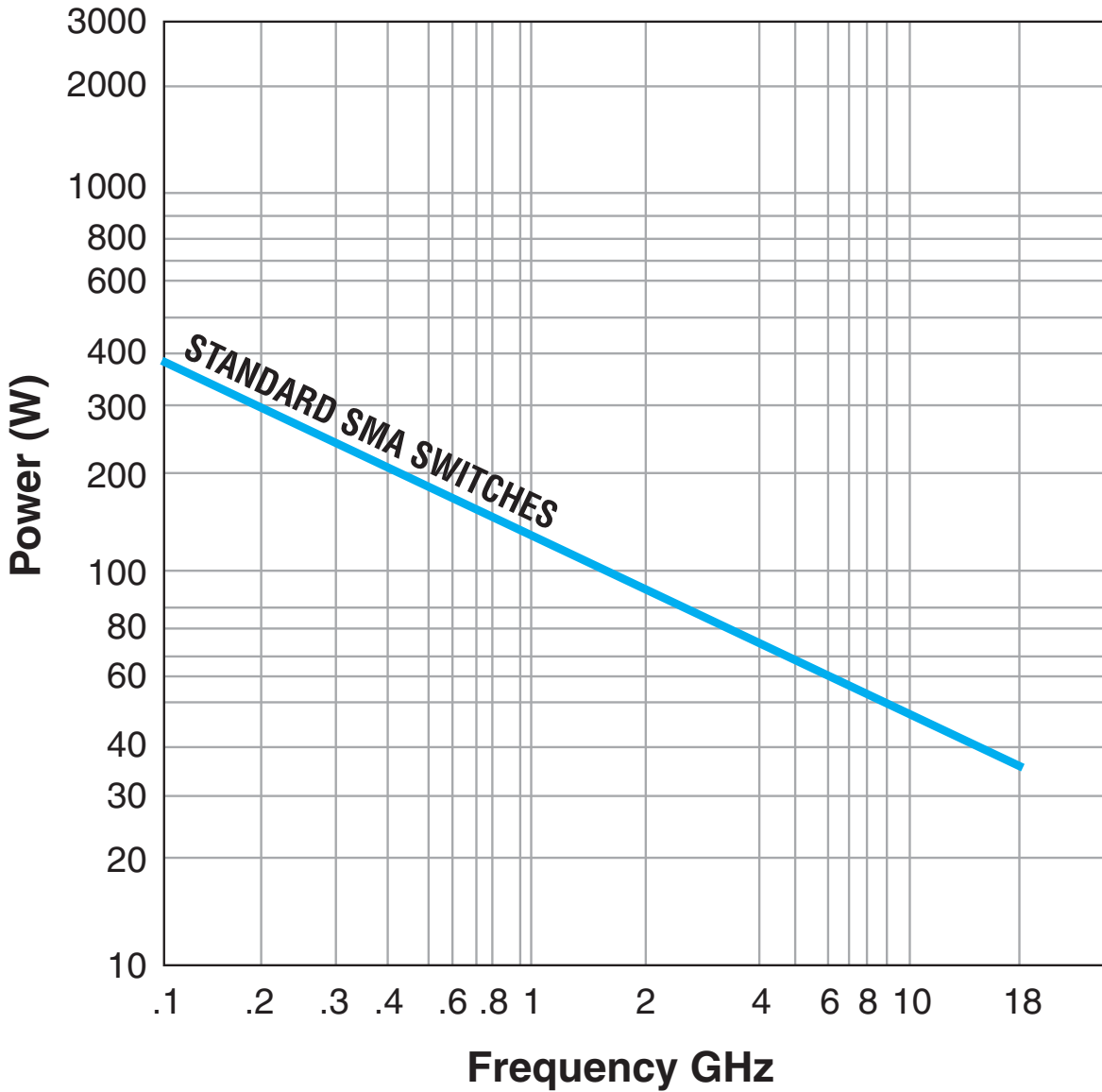


Isolation (DC-12GHz)



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.

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 de-energizes 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 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 4-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.

Series CCR-38S/CR-38S
Multi-Throw DC–12 GHz, SP7T & SP8T
Normally Open Coaxial Switch



NORMALLY OPEN CCR-38S PART NUMBER LIST

| | PART No. | | PART No. | | PART No. |
|----|-----------------|----|-----------------|-----|-----------------|
| 1 | CCR-38SX7C | 43 | CCR-38SX70 | 85 | CCR-38SX8C |
| 2 | CCR-38SX7C-D | 44 | CCR-38SX70-D | 86 | CCR-38SX8C-D |
| 3 | CCR-38SX7C-DM | 45 | CCR-38SX70-DM | 87 | CCR-38SX8C-DM |
| 4 | CCR-38SX7C-M | 46 | CCR-38SX70-M | 88 | CCR-38SX8C-M |
| 5 | CCR-38SX7C-MS | 47 | CCR-38SX70-MS | 89 | CCR-38SX8C-MS |
| 6 | CCR-38SX7C-S | 48 | CCR-38SX70-S | 90 | CCR-38SX8C-S |
| 7 | CCR-38SX7C-T | 49 | CCR-38SX70-T | 91 | CCR-38SX8C-T |
| 8 | CCR-38SX7C-TD | 50 | CCR-38SX70-TD | 92 | CCR-38SX8C-TD |
| 9 | CCR-38SX7C-TDM | 51 | CCR-38SX70-TDM | 93 | CCR-38SX8C-TDM |
| 10 | CCR-38SX7C-TDMS | 52 | CCR-38SX70-TDMS | 94 | CCR-38SX8C-TDMS |
| 11 | CCR-38SX7C-TDS | 53 | CCR-38SX70-TDS | 95 | CCR-38SX8C-TDS |
| 12 | CCR-38SX7C-TM | 54 | CCR-38SX70-TM | 96 | CCR-38SX8C-TM |
| 13 | CCR-38SX7C-TMS | 55 | CCR-38SX70-TMS | 97 | CCR-38SX8C-TMS |
| 14 | CCR-38SX7C-TS | 56 | CCR-38SX70-TS | 98 | CCR-38SX8C-TS |
| 15 | CCR-38SX70 | 57 | CCR-38SX8C | 99 | CCR-38SX80 |
| 16 | CCR-38SX70-D | 58 | CCR-38SX8C-D | 100 | CCR-38SX80-D |
| 17 | CCR-38SX70-DM | 59 | CCR-38SX8C-DM | 101 | CCR-38SX80-DM |
| 18 | CCR-38SX70-M | 60 | CCR-38SX8C-M | 102 | CCR-38SX80-M |
| 19 | CCR-38SX70-MS | 61 | CCR-38SX8C-MS | 103 | CCR-38SX80-MS |
| 20 | CCR-38SX70-S | 62 | CCR-38SX8C-S | 104 | CCR-38SX80-S |
| 21 | CCR-38SX70-T | 63 | CCR-38SX8C-T | 105 | CCR-38SX80-T |
| 22 | CCR-38SX70-TD | 64 | CCR-38SX8C-TD | 106 | CCR-38SX80-TD |
| 23 | CCR-38SX70-TDM | 65 | CCR-38SX8C-TDM | 107 | CCR-38SX80-TDM |
| 24 | CCR-38SX70-TDMS | 66 | CCR-38SX8C-TDMS | 108 | CCR-38SX80-TDMS |
| 25 | CCR-38SX70-TDS | 67 | CCR-38SX8C-TDS | 109 | CCR-38SX80-TDS |
| 26 | CCR-38SX70-TM | 68 | CCR-38SX8C-TM | 110 | CCR-38SX80-TM |
| 27 | CCR-38SX70-TMS | 69 | CCR-38SX8C-TMS | 111 | CCR-38SX80-TMS |
| 28 | CCR-38SX70-TS | 70 | CCR-38SX8C-TS | 112 | CCR-38SX80-TS |
| 29 | CCR-38SX7C | 71 | CCR-38SX80 | | |
| 30 | CCR-38SX7C-D | 72 | CCR-38SX80-D | | |
| 31 | CCR-38SX7C-DM | 73 | CCR-38SX80-DM | | |
| 32 | CCR-38SX7C-M | 74 | CCR-38SX80-M | | |
| 33 | CCR-38SX7C-MS | 75 | CCR-38SX80-MS | | |
| 34 | CCR-38SX7C-S | 76 | CCR-38SX80-S | | |
| 35 | CCR-38SX7C-T | 77 | CCR-38SX80-T | | |
| 36 | CCR-38SX7C-TD | 78 | CCR-38SX80-TD | | |
| 37 | CCR-38SX7C-TDM | 79 | CCR-38SX80-TDM | | |
| 38 | CCR-38SX7C-TDMS | 80 | CCR-38SX80-TDMS | | |
| 39 | CCR-38SX7C-TDS | 81 | CCR-38SX80-TDS | | |
| 40 | CCR-38SX7C-TM | 82 | CCR-38SX80-TM | | |
| 41 | CCR-38SX7C-TMS | 83 | CCR-38SX80-TMS | | |
| 42 | CCR-38SX7C-TS | 84 | CCR-38SX80-TS | | |

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

NORMALLY OPEN CR-38S PART NUMBER LIST

| | PART No. | | PART No. | | PART No. |
|----|----------------|----|----------------|-----|----------------|
| 1 | CR-38SX7C | 43 | CR-38SX70 | 85 | CR-38SX8C |
| 2 | CR-38SX7C-D | 44 | CR-38SX70-D | 86 | CR-38SX8C-D |
| 3 | CR-38SX7C-DM | 45 | CR-38SX70-DM | 87 | CR-38SX8C-DM |
| 4 | CR-38SX7C-M | 46 | CR-38SX70-M | 88 | CR-38SX8C-M |
| 5 | CR-38SX7C-MS | 47 | CR-38SX70-MS | 89 | CR-38SX8C-MS |
| 6 | CR-38SX7C-S | 48 | CR-38SX70-S | 90 | CR-38SX8C-S |
| 7 | CR-38SX7C-T | 49 | CR-38SX70-T | 91 | CR-38SX8C-T |
| 8 | CR-38SX7C-TD | 50 | CR-38SX70-TD | 92 | CR-38SX8C-TD |
| 9 | CR-38SX7C-TDM | 51 | CR-38SX70-TDM | 93 | CR-38SX8C-TDM |
| 10 | CR-38SX7C-TDMS | 52 | CR-38SX70-TDMS | 94 | CR-38SX8C-TDMS |
| 11 | CR-38SX7C-TDS | 53 | CR-38SX70-TDS | 95 | CR-38SX8C-TDS |
| 12 | CR-38SX7C-TM | 54 | CR-38SX70-TM | 96 | CR-38SX8C-TM |
| 13 | CR-38SX7C-TMS | 55 | CR-38SX70-TMS | 97 | CR-38SX8C-TMS |
| 14 | CR-38SX7C-TS | 56 | CR-38SX70-TS | 98 | CR-38SX8C-TS |
| 15 | CR-38SX70 | 57 | CR-38SX8C | 99 | CR-38SX80 |
| 16 | CR-38SX70-D | 58 | CR-38SX8C-D | 100 | CR-38SX80-D |
| 17 | CR-38SX70-DM | 59 | CR-38SX8C-DM | 101 | CR-38SX80-DM |
| 18 | CR-38SX70-M | 60 | CR-38SX8C-M | 102 | CR-38SX80-M |
| 19 | CR-38SX70-MS | 61 | CR-38SX8C-MS | 103 | CR-38SX80-MS |
| 20 | CR-38SX70-S | 62 | CR-38SX8C-S | 104 | CR-38SX80-S |
| 21 | CR-38SX70-T | 63 | CR-38SX8C-T | 105 | CR-38SX80-T |
| 22 | CR-38SX70-TD | 64 | CR-38SX8C-TD | 106 | CR-38SX80-TD |
| 23 | CR-38SX70-TDM | 65 | CR-38SX8C-TDM | 107 | CR-38SX80-TDM |
| 24 | CR-38SX70-TDMS | 66 | CR-38SX8C-TDMS | 108 | CR-38SX80-TDMS |
| 25 | CR-38SX70-TDS | 67 | CR-38SX8C-TDS | 109 | CR-38SX80-TDS |
| 26 | CR-38SX70-TM | 68 | CR-38SX8C-TM | 110 | CR-38SX80-TM |
| 27 | CR-38SX70-TMS | 69 | CR-38SX8C-TMS | 111 | CR-38SX80-TMS |
| 28 | CR-38SX70-TS | 70 | CR-38SX8C-TS | 112 | CR-38SX80-TS |
| 29 | CR-38SX7C | 71 | CR-38SX80 | | |
| 30 | CR-38SX7C-D | 72 | CR-38SX80-D | | |
| 31 | CR-38SX7C-DM | 73 | CR-38SX80-DM | | |
| 32 | CR-38SX7C-M | 74 | CR-38SX80-M | | |
| 33 | CR-38SX7C-MS | 75 | CR-38SX80-MS | | |
| 34 | CR-38SX7C-S | 76 | CR-38SX80-S | | |
| 35 | CR-38SX7C-T | 77 | CR-38SX80-T | | |
| 36 | CR-38SX7C-TD | 78 | CR-38SX80-TD | | |
| 37 | CR-38SX7C-TDM | 79 | CR-38SX80-TDM | | |
| 38 | CR-38SX7C-TDMS | 80 | CR-38SX80-TDMS | | |
| 39 | CR-38SX7C-TDS | 81 | CR-38SX80-TDS | | |
| 40 | CR-38SX7C-TM | 82 | CR-38SX80-TM | | |
| 41 | CR-38SX7C-TMS | 83 | CR-38SX80-TMS | | |
| 42 | CR-38SX7C-TS | 84 | CR-38SX80-TS | | |

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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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