

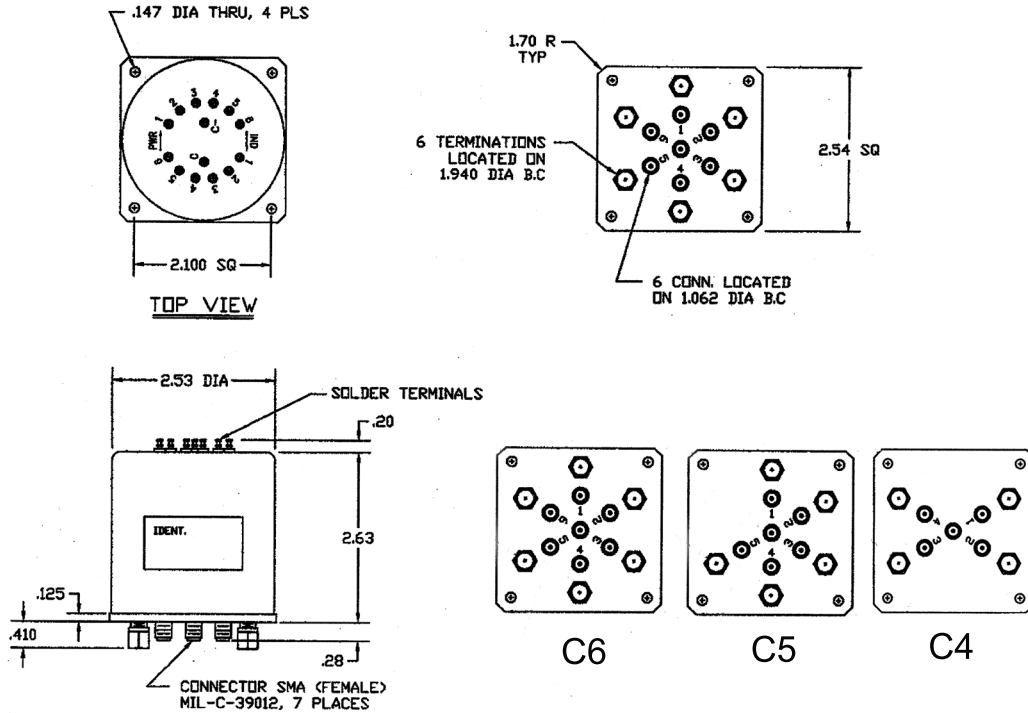
# C3 - C6 SERIES SP3T - SP6T DC - 18.0 GHz

EXTERNAL PORTS TERMINATED

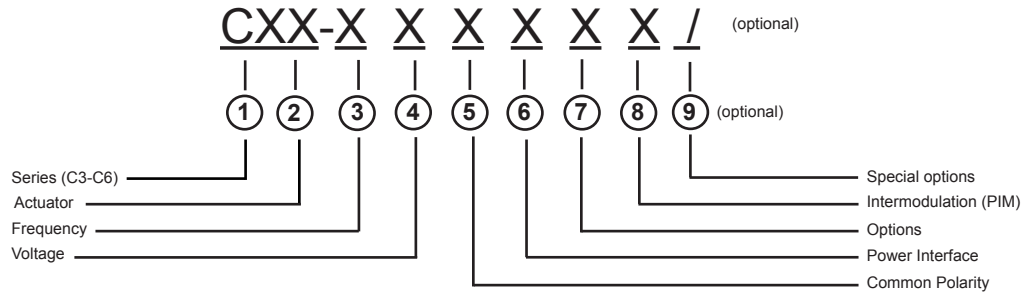


|                              |          |  |           |            |             |
|------------------------------|----------|--|-----------|------------|-------------|
| <b>FREQUENCY:</b><br>GHz     | DC - 2.0 | 2.0 - 4.0  | 4.0 - 8.0 | 8.0 - 12.4 | 12.4 - 18.0 |
| <b>VSWR (MAX.)</b>           | 1.20:1   | 1.25:1   | 1.30:1    | 1.40:1     | 1.50:1      |
| <b>INSERTION LOSS (MAX.)</b> | 0.20     | 0.25   | 0.30      | 0.40       | 0.50        |
| <b>ISOLATION (MIN.)</b>      | 90       | 80   | 80        | 70         | 60          |
| <b>IMPEDANCE</b>             | 50 Ohms  |  |           |            |             |
| <b>MECHANICAL</b>            |          |  |           |            |             |
| CONTACT                      | :        | BREAK BEFORE MAKE  |           |            |             |
| ACTUATOR                     | :        | FAILSAFE, LATCHING, MOMENTARY  |           |            |             |
| SWITCHING SPEED              | :        | 20 mSEC MAX.   |           |            |             |
| <b>ELECTRICAL</b>            |          |  |           |            |             |
| ACTUATOR VOLTAGE             | :        | 28.0, 24.0, 15.0, 12.0 Vdc   |           |            |             |
| ACTUATOR CURRENT             | :        | CONTACT CEI  |           |            |             |
| POWER HANDLING               | :        | 200 WCW @ 1.0 GHz (STANDARD)<br>300 WCW @ 1.0 GHz (OPT /P)   |           |            |             |
| TERMINATION                  | :        | 1 WATT EXTERNAL (INCLUDED)   |           |            |             |
| <b>ENVIRONMENTAL</b>         |          |  |           |            |             |
| OPERATING TEMP               | :        | -40 DEG. C TO 85 DEG. C (STANDARD)<br>-54 DEG. C TO 90 DEG. C (OPT /MS)                                |           |            |             |
| SHOCK                        | :        | 50 G's (SAWTOOTH)  |           |            |             |
| RANDOM VIBRATION             | :        | 15 G's rms (NON-OPERATING)   |           |            |             |
| LIFE                         | :        | 1,000,000 CYCLES   |           |            |             |
| <b>FINISH</b>                |          |  |           |            |             |
| RF CAVITY                    | :        | ALUMINUM ELECTROLESS NICKEL PLATED<br>PER MIL-C-26074, CLASS 4<br>(EXCEPT ULTRA LOW OR SUP. IM MODELS) |           |            |             |
| ENCLOSURE                    | :        | ALUMINUM, BLUE   |           |            |             |
| CONTACT                      | :        | BERYLLIUM COPPER, GOLD PLATED<br>PER MIL-G-45204   |           |            |             |
| CONNECTOR SHELL              | :        | CRES, PASSIVATED PER QQ-P-35 OR BRASS,<br>ELECTROLESS NICKEL PLATED<br>PER MIL-C-26074                 |           |            |             |
| NOTE                         | :        | FINISH MAY VARY WITH /MS VERSION   |           |            |             |
| <b>AVAILABLE OPTIONS</b>     |          |  |           |            |             |
| INDICATOR CIRCUITRY          | :        | CUT OFF POWER CIRCUIT  |           |            |             |
| SUPPRESSION DIODE            | :        | D' SUB MINIATURE SERIES  |           |            |             |
| TTL LOGIC                    | :        | CUSTOM DESIGNS   |           |            |             |
| BCD TTL DECODER              | :        | LOW, ULTRA, OR SUP INTERMODULATION   |           |            |             |

NOTE: REFERENCE FOR DIMENSIONS ONLY.  
EACH MODEL NUMBER WILL HAVE A UNIQUE SCHEMATIC.  
ALSO AVAILABLE WITH A D'SUB, MICRO D'SUB OR MS SERIES CONNECTOR.



## C3-C6 SERIES PART NUMBER &amp; ORDERING INFORMATION

**1 - Switch Series**

|    |                                |
|----|--------------------------------|
| C3 | SP3T EXTERNALLY TERMINATED SMA |
| C4 | SP4T EXTERNALLY TERMINATED SMA |
| C5 | SP5T EXTERNALLY TERMINATED SMA |
| C6 | SP6T EXTERNALLY TERMINATED SMA |

**2 - Actuator**

|   |   |   |  |
|---|---|---|--|
| F | FAILSAFE                                      | R | MOMENTARY                                      |
| G | FAILSAFE WITH SUPPRESSION DIODE               | S | MOMENTARY WITH SUPPRESSION DIODE               |
| H | FAILSAFE WITH INDICATOR                       | T | MOMENTARY WITH INDICATOR                       |
| J | FAILSAFE WITH SUPPRESSION DIODE AND INDICATOR | U | MOMENTARY WITH SUPPRESSION DIODE AND INDICATOR |
| L | LATCHING                                      | Y | OTHER (SPECIFY)                                |
| M | LATCHING WITH SUPPRESSION DIODE               |   |  |
| N | LATCHING WITH INDICATOR                       |   |  |
| P | LATCHING WITH SUPPRESSION DIODE AND INDICATOR |   |  |

**3 - Frequency Bandwidth**

|   |               |   |                 |
|---|---------------|---|-----------------|
| 1 | DC - 13.0 GHz | 6 | DC - 6.0 GHz    |
| 2 | DC - 2.0 GHz  | 0 | OTHER (SPECIFY) |
| 3 | DC - 12.4 GHz |   |                 |
| 4 | DC - 4.0 GHz  |   |                 |
| 5 | DC - 18.0 GHz |   |                 |

**4 - Voltage**

|   |                            |   |                            |
|---|----------------------------|---|----------------------------|
| 1 | 10 - 14 Vdc (12.0 NOMINAL) | 4 | 26 - 30 Vdc (28.0 NOMINAL) |
| 2 | 13 - 17 Vdc (15.0 NOMINAL) | 5 | OTHER                      |
| 3 | 22 - 26 Vdc (24.0 NOMINAL) | 0 | NOT REQUIRED               |

**5 - Common Polarity**

|   |                                   |
|---|-----------------------------------|
| 1 | POSITIVE (+) COMMON               |
| 2 | NEGATIVE (-) OR RETURN Vdc COMMON |
| 0 | NOT REQUIRED                      |

**6 - Power Interface**

|   |   |   |   |
|---|---|---|---|
| 1 | SOLDER TERMINAL (TOP OF SWITCH)               | 5 | D' SUB MINIATURE SERIES (TOP OF SWITCH) |
| 3 | CONN MS3112E-XX-XXP OR EQUIV. (TOP OF SWITCH) | 8 | OTHER                                   |

**7 - Options**

|   |   |   |                           |
|---|---|---|---------------------------|
| 1 | CUT OFF POWER CIRCUIT (LATCHING ONLY)           | 8 | OTHER (SPECIFY)           |
| 2 | TTL LOGIC                                       | 9 | CUSTOM (ORDER)            |
| 3 | CUT OFF PWR CIRCUIT & TTL LOGIC (LATCHING ONLY) | 0 | NO OTHER OPTIONS REQUIRED |
| 4 | BCD TTL DECODER                                 |   |                           |

**8 - Intermodulation**

|   |                                  |   |                                   |
|---|----------------------------------|---|-----------------------------------|
| 7 | LOW PASSIVE INTERMODULATION      | 9 | ULTRA LOW PASSIVE INTERMODULATION |
| 8 | SUPERIOR PASSIVE INTERMODULATION | 0 | STANDARD SWITCH                   |

**9 - Special Options (optional - leave blank if not required)**

|      |   |
|------|---|
| /P   | HIGH TEMP, HIGH POWER CONNECTOR                         |
| /MS  | EXTENDED TEMP RANGE -54 DEG C TO +90 DEC C              |
| /MSP | HIGH TEMP, HIGH POWER CONNECTOR AND EXTENDED TEMP RANGE |