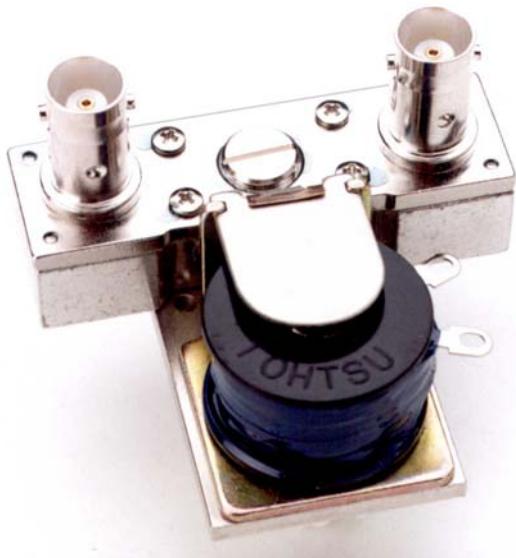


# IMARK

## PRODUCT DESCRIPTION



**CX-530D**  
**TOHTSU COAXIAL RELAY**  
 SPDT 24 Volt Coaxial Relay with one "N" Type & 2 BNC Connectors  
 Imark Stock # [851410](#)

**Features:**

- Compact Size
- Operates up to 2.0 GHz
- Low Loss
- Low VSWR
- Good Isolation
- High Power Capability
- 24 Volt Operation
- 12 Volt or 48 Volt versions available

**DESCRIPTION:**

The Tohtsu CX-530D Coaxial Relay is specifically designed for switching RF feed paths in two-way radio applications, but can also be used in LAN applications. They are designed for internal fitment within radio equipment but can be remotely mounted nearer the antenna if required. It is fitted with one "N" Type connector (COM) and two BNC Connectors (NO & NC). Switching is achieved by applying 24 Volts DC to the Coil. The Tohtsu CX-530D Coaxial Relays feature low loss, good VSWR, and good isolation characteristics.

| <b>SPECIFICATIONS:</b>           |  |
|----------------------------------|--|
| <b>COIL</b>                      |  |
| Actuation Voltage                | 20Vdc - 26Vdc (12 Volts DC Nominal)                      |
| Current Requirement              | 66mA @ 24 Vdc 20°C                                       |
| Coil Resistance                  | 363Ω ±10% 20°C   |
| Switching Time                   | 20mS (Pull In) Max, 15mS (Drop Out) Max                  |
| <b>SWITCHING CIRCUIT</b>         |  |
| Circuit Type                     | SPDT   |
| Switching Circuit Impedance      | 50Ω  |
| Voltage Standing Wave Ratio      | Less than 1.2:1 @ 2.0GHz                                 |
| Isolation                        | >65dB @ 50 MHz<br>>39dB @ 2.0GHz                         |
| Insertion Loss                   | <0.01dB @ 50 MHz<br><0.1dB @ 2.0 GHz                     |
| Maximum Input Power              | 350 Watts @ 50 MHz<br>150 Watts @ 2.0GHz                 |
| Connector Type                   | 1 x "N" Type & 2 x BNC Connectors                        |
| <b>MECHANICAL &amp; PHYSICAL</b> |  |
| Life Expectancy                  | 500,000 Operations Minimum                               |
| Operational Temperature          | -25°C to + 50°C  |
| Mounting Requirements            | 4 pieces M3 Screws (Not Supplied)                        |
| Overall Unit Dimensions          | 58(W) x 52(D) x 53(H) mm                                 |
| Shipping Dimensions              | 108(W) x 78(D) x 70(H) mm                                |
| Unit Weight                      | 200 grams  |
| Shipping Weight                  | 260 grams  |
| Inclusions                       | Relay Unit, Instruction Sheet                            |
| Approvals                        |  |
| Imark Stock #                    | 851410   |
| Options                          | 12Vdc version, 48Vdc versions available on special order |