



CX-520D TOHTSU COAXIAL RELAY

SPDT 12 Volt Coaxial Relay with "N" Type Connectors

Features:

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

DESCRIPTION:

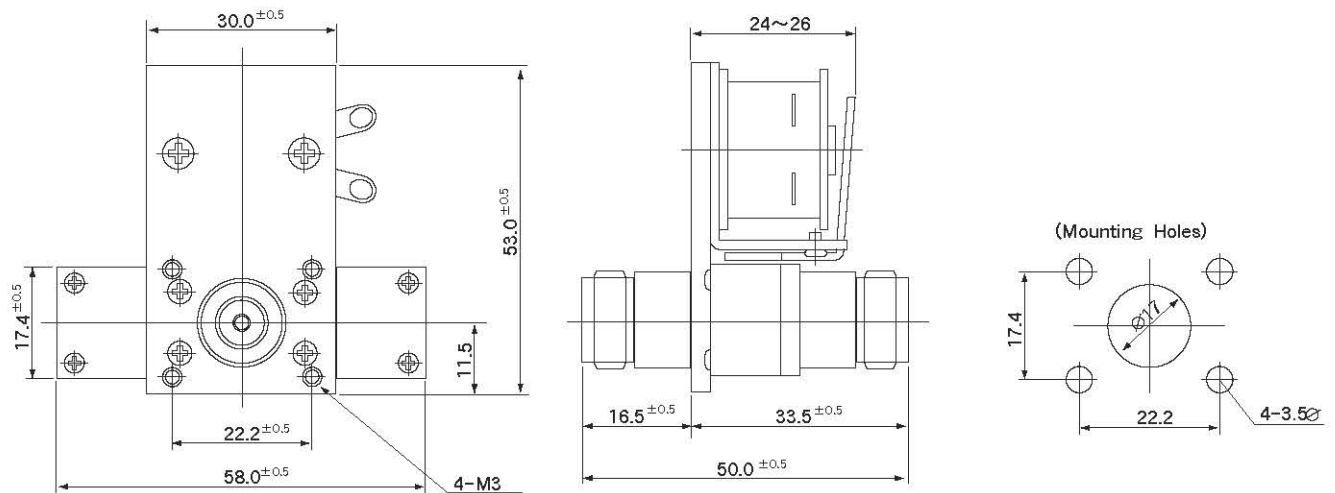
The Tohtsu CX-520D Coaxial Relay is specifically designed for switching RF feed paths in two-way radio applications, but can also be used in LAN applications. They are designed for internal fitment within radio equipment but can be remotely mounted nearer the antenna if required. It is fitted with "N" Type connectors and switching is achieved by applying 12 Volts DC to the Coil. The Tohtsu CX-520D Coaxial Relays feature low loss, good VSWR, and good isolation characteristics.

SPECIFICATIONS:

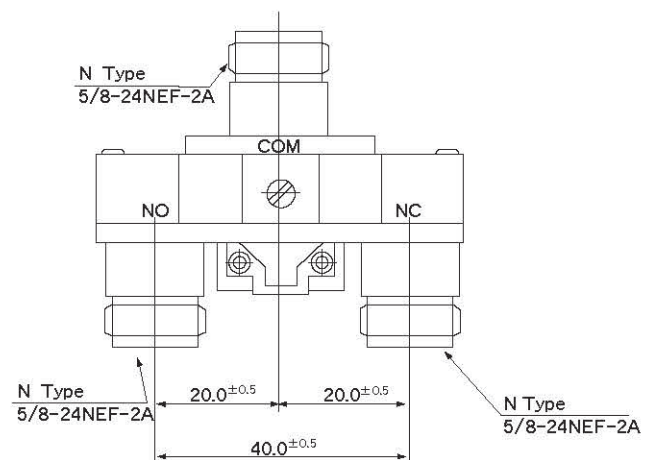
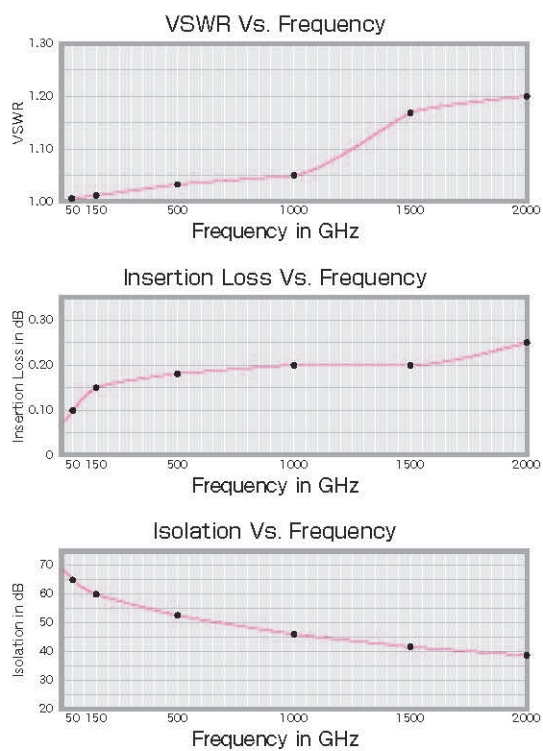
COIL	
Actuation Voltage	9Vdc - 16.5Vdc (12 Volts DC Nominal)
Current Requirement	160mA @ 12 Vdc 20°C
Coil Resistance	75Ω ±10% 20°C
Switching Time	20mS (Pull In) Max, 15mS (Drop Out) Max
SWITCHING CIRCUIT	
Circuit Type	SPDT
Switching Circuit Impedance	50Ω
Voltage Standing Wave Ratio	Less than 1.2:1 @ 2.0GHz
Isolation	>65dB @ 50 MHz
Insertion Loss	>39dB @ 2.0GHz
	<0.1dB @ 50 MHz
Maximum Input Power	<0.25dB @ 2.0 GHz
	350 Watts @ 50 MHz
Crosstalk	150 Watts @ 2.0GHz
Connector Type	76dB @ 300 MHz to 50 dB @ 1.0 GHz
MECHANICAL & PHYSICAL	
Life Expectancy	3 x "N" Type
Operational Temperature	1,000,000 Operations Minimum
Mounting Requirements	-50°C to +70°C
Overall Unit Dimensions	4 pieces M3 Screws (Not Supplied)
Shipping Dimensions	58(W) x 50(D) x 53(H) mm
Unit Weight	108(W) x 78(D) x 70(H) mm
Shipping Weight	230 grams
Approvals	275 grams
Options	
	24Vdc version (#851404), 48Vdc version available on special order

DIMENSIONS

■ SCALE m/n



Typical Operating Curves



Schematic

