

IMARK

PRODUCT DESCRIPTION



CX-800N
TOHTSU COAXIAL RELAY
 DPDT 12 Volt Coaxial Relay with dual circuits
 and six "N" Type Female Connectors
 Imark Stock # [851421](#)

Features:

- Compact Size
- Operates up to 1.0 GHz
- Low Loss
- Low VSWR
- Good Isolation
- High Power Capability
- 12 Volt Operation
- 24 Volt or 48 Volt versions available

DESCRIPTION:

The Tohtsu CX-800N Coaxial Relay is specifically designed with dual circuits 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 six "N" Type Female Connectors. Switching is achieved by applying 12 Volts DC to the Coil. The Tohtsu CX-800N Coaxial Relays feature low loss, good VSWR, good isolation, and high RF power handling characteristics.

SPECIFICATIONS:	
COIL	
Actuation Voltage	10Vdc - 14Vdc (12 Volts DC Nominal)
Current Requirement	250mA @ 12 Vdc 20°C
Coil Resistance	48Ω ±10% 20°C
Switching Time	20mS (Pull In) Max, 15mS (Drop Out) Max
SWITCHING CIRCUIT	
Circuit Type	DPDT
Switching Circuit Impedance	50Ω
Voltage Standing Wave Ratio	Less than 1.2:1 @ 2.0GHz
Isolation	>50dB @ 50 MHz >23dB @ 2.0GHz
Insertion Loss	<0.1dB @ 50 MHz <0.25dB @ 2.0 GHz
Maximum Input Power	1.5 KWatts (PEP) @ 50 MHz 150 Watts (CW) @ 2.0 GHz
Crosstalk	42dB @ 30 MHz to 21 dB @ 1.0 GHz
Connector Type	6 x "N" Type Female Connectors
MECHANICAL & PHYSICAL	
Life Expectancy	500,000 Operations Minimum
Operational Temperature	-50°C to +70°C
Mounting Requirements	2 pieces M3 Screws (Not Supplied)
Overall Unit Dimensions	45(W) x 93(D) x 71(H) mm
Shipping Dimensions	80(W) x 113(D) x 60(H) mm
Unit Weight	380 grams
Shipping Weight	425 grams
Inclusions	Relay Unit, Instruction Sheet
Approvals	
Imark Stock #	851421
Options	24Vdc or 48Vdc version available on special order