

IMARK

PRODUCT DESCRIPTION



CX-120A TOHTSU COAXIAL RELAY SPST 12 Volt Coaxial Relay for PCB Mounting Imark Stock # [851444](#)

Features:

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

DESCRIPTION:

The Tohtsu CX-120A 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 PCB mounting. Switching is achieved by applying 12 Volts DC to the Coil. The Tohtsu CX-120A 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	61mA @ 12 Vdc 20°C
Coil Resistance	196Ω ±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 1.4:1 @ 1.0GHz
Isolation	>60dB @ 50 MHz >29dB @ 1.0GHz
Insertion Loss	<0.05dB @ 50 MHz <0.25dB @ 1.0 GHz
Maximum Input Power	250 Watts @ 50 MHz 150 Watts @ 1.0GHz
Connector Type	Directly connected cables
MECHANICAL & PHYSICAL	
Life Expectancy	1,000,000 Operations Minimum
Operational Temperature	-25°C to + 50°C
Mounting Requirements	2 pieces M3 Screws
Overall Unit Dimensions	35(W) x 24(D) x 35(H) mm
Shipping Dimensions	80(W) x 110(D) x 38(H) mm
Unit Weight	75 grams
Shipping Weight	110 grams
Inclusions	Relay Unit, Instruction Sheet
Approvals	
Imark Stock #	851444
Options	24Vdc or 48Vdc versions available on special order