2. Specifications

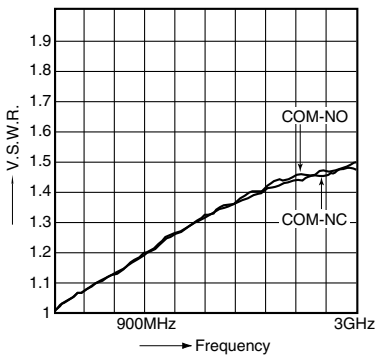
Characteristics	Item		Specifications
Contact	Arrangement		1 Form C
	Contact material		Gold plating
	Initial contact resistance, max.		Max. 100mΩ (By voltage drop 10V AC 10mA)
Rating	Contact rating		1W (at 2.6 GHz [Impedance 75Ω;, V.S.W.R. Max.1.5] [Impedance 50Ω, V.S.W.R. Max.1.7]) 10mA 24V DC (resistive load)
	Contact carrying power		10W (at 2.6GHz [Impedance 75Ω, V.S.W.R. Max.1.5] [Impedance 50Ω, V.S.W.R. Max.1.7])
	Max. switching voltage		30V DC
	Max. switching current		0.5A DC
	Nominal operating power		200mW
High frequency characteristics (Initial) (Impedance 75Ω)	V.S.W.R.		Max. 1.2 (to 900MHz), Max. 1.5 (to 2.6GHz)
	Insertion loss		Max. 0.2dB (to 900MHz), Max. 0.5dB (to 2.6GHz)
	Isolation		Min. 60dB (to 900MHz), Min. 30dB (to 2.6GHz)
High frequency characteristics (Initial) (Impedance 50Ω)	V.S.W.R.		Max. 1.3 (to 900MHz), Max. 1.7 (to 2.6GHz)
	Insertion loss		Max. 0.2dB (to 900MHz), Max. 0.7dB (to 2.6GHz)
	Isolation		Min. 60dB (to 900MHz), Min. 30dB (to 2.6GHz)
Electrical characteristics	Insulation resistance (Initial)		Min. 100MΩ (at 500V DC) Measurement at same location as “Initial breakdown voltage” section.
	Breakdown voltage (Initial)	Between open contacts	500 Vrms for 1min. (Detection current: 10mA)
		Between contact and coil	1,000 Vrms for 1min. (Detection current: 10mA)
		Between contact and earth terminal	500 Vrms for 1min. (Detection current: 10mA)
	Temperature rise (at 20°C)		Max. 60°C (By resistive method, nominal voltage applied to the coil: Contact carrying power: 10W, at 2.6GHz, [Impedance 75Ω, V.S.W.R. ≦ 1.5] [Impedance 50Ω, V.S.W.R. ≦ 1.7])
	Operate time (at 20°C)		Max. 10ms (Nominal operating voltage applied to the coil, excluding contact bounce time.)
	Release time (at 20°C)		Max. 5ms (Nominal operating voltage applied to the coil, excluding contact bounce time.) (without diode)
Mechanical characteristics	Shock resistance	Functional	Min. 500 m/s² {50 G} (Half-wave pulse of sine wave: 11ms; detection time: 10μs.)
		Destructive	Min. 1,000m/s² {100 G} (Half-wave pulse of sine wave: 6ms.)
	Vibration resistance	Functional	10 to 55 Hz at double amplitude of 3mm (Detection time: 10μs.)
		Destructive	10 to 55 Hz at double amplitude of 5mm
Expected life	Mechanical		Min. 10^6 (at 180 cpm)
	Electrical		Min. 3×10^5 (1W, 2.6GHz, [Impedance 75Ω, V.S.W.R. ≦ 1.5] [Impedance 50Ω, V.S.W.R. ≦ 1.7]) Min. 3×10^5 (10mA 24V DC (resistive load) (at 20cpm))
Conditions	Conditions for operation, transport and storage*		Ambient temperature: –40°C to +70°C –40°F to +158°F Humidity: 5 to 85% R.H. (Not freezing and condensing at low temperature)
Unit weight			Approx. 5 g .18 oz

Note: * The upper operation ambient temperature limit is the maximum temperature that can satisfy the coil temperature rise value. Refer to [6] AMBIENT ENVIRONMENT in GENERAL APPLICATION GUIDELINES.

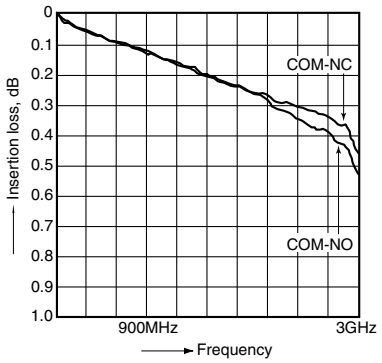
REFERENCE DATA

1-(1). High frequency characteristics (Impedance 50Ω) (Standard PC board terminal)

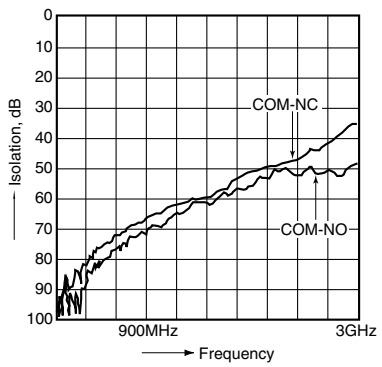
• V.S.W.R. characteristics



• Insertion loss characteristics



• Isolation characteristics



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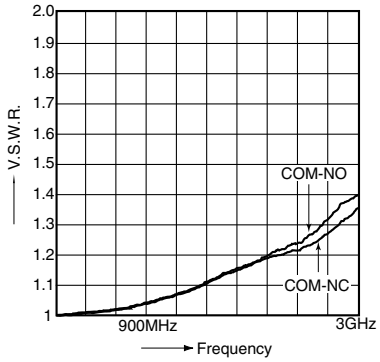
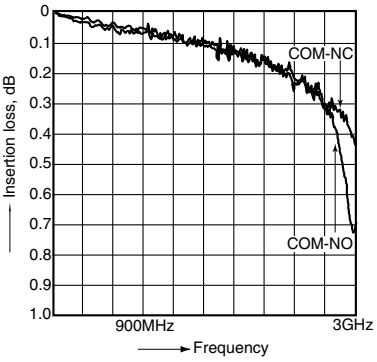
1-(2). High frequency characteristics (Impedance 75Ω) (Standard PC board terminal)

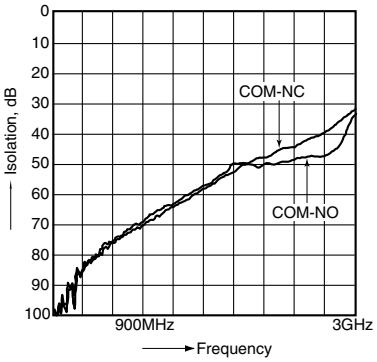
• V.S.W.R. characteristics



• Insertion loss characteristics



• Isolation characteristics

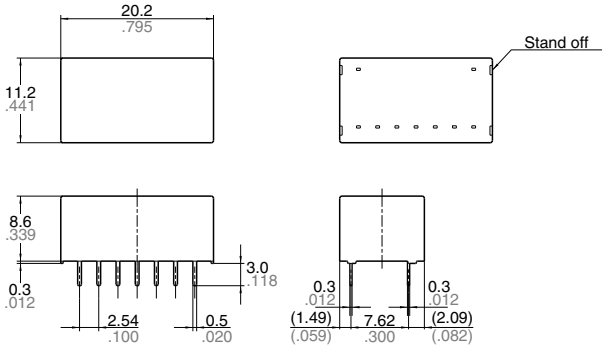


DIMENSIONS (mm inch)

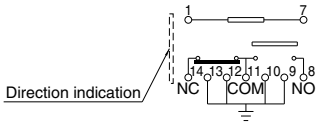
The CAD data of the products with a **CAD Data** mark can be downloaded from: http://industrial.panasonic.com/ac/e/

1. Standard PC board terminal (50Ω, 75Ω type)

CAD Data



Schematic (Bottom view)



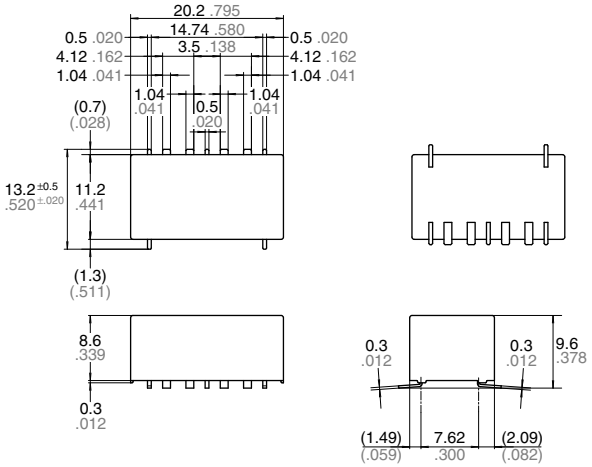
(Deenergized condition)

General tolerance: ±0.3 ±.012

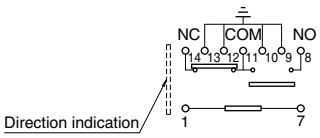
2. Surface mount terminal

• **50Ω type**

CAD Data



Schematic (Top view)



(Deenergized condition)

General tolerance: ±0.3 ±.012

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