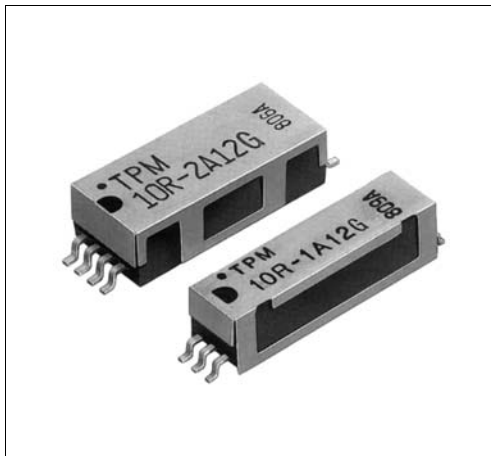


Surface Mount Reed Relays (2)

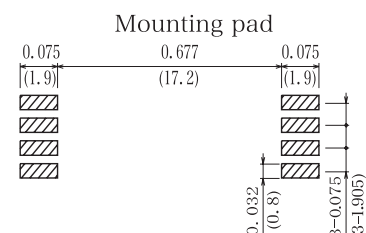
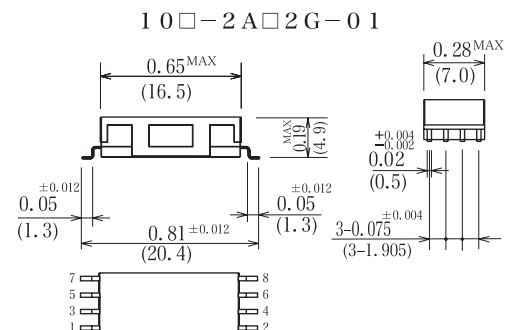
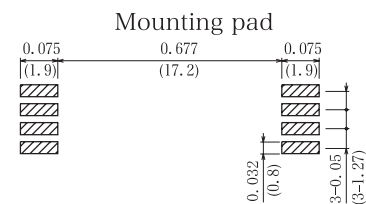
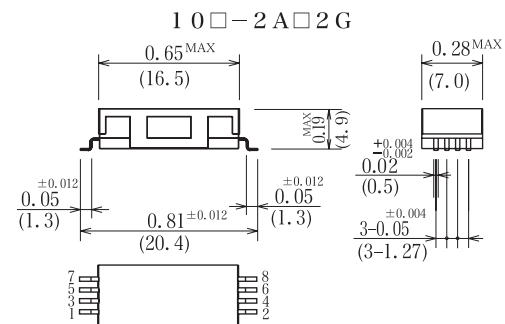
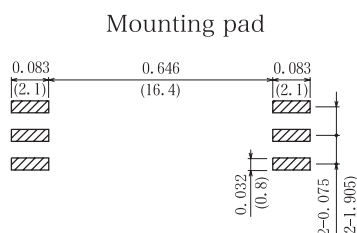
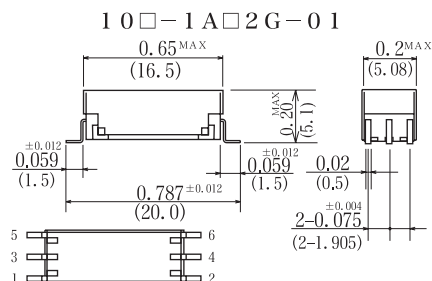
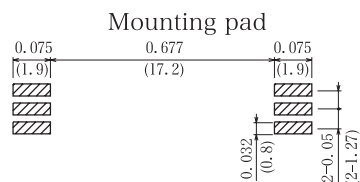
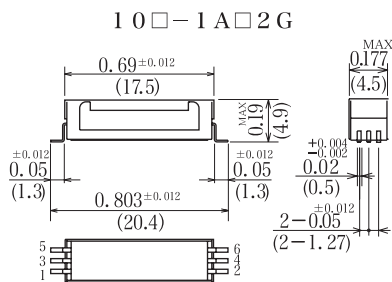
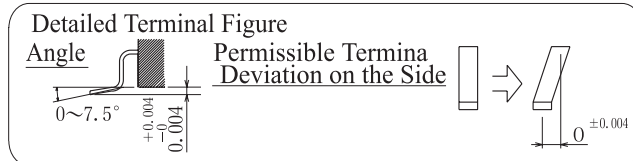


The 10 Series is the standard series for SMT 10 W contact rating. This product line comes in 1 Form A and 2 Form A arrangements. These relays provide the high-cycle support demanded by the ATE and communications.

- Standard SMT relays
- Impedance 50Ω
- Electric magnetic shield available
- UL Certified

Mechanical Dimensions

All dimensions are measured in inches (millimeters).



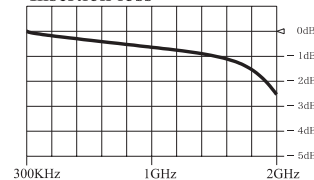
As for 10D-1A and 10R-1A type relays, the tape-and-reel packing is also available, Refer to page 44, 45



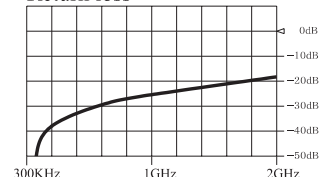
10D, 10R Series			50Ω Coaxial	50Ω Coaxial	50Ω Coaxial	50Ω Coaxial
			Model Number	Model Number	Model Number	Model Number
			10D-1A□2□-□□	10R-1A□2□-□□	10D-2A□2□-□□	10R-2A□2□-□□
Parameters	Test Condition	Units	1 Form A	1 Form A	2 Form A	2 Form A
Coil Specifications						
Nominal coil voltage		VDC	5	12	5	12
Coil resistance	±10%at20°C	Ω	160	600	140	600
Operating voltage	15°C~35°C	VDC Max	3.6	9.6	3.6	9.6
Release voltage	15°C~35°C	VDC Min	0.8	1.2	0.8	1.2
Contact Ratings						
Switching voltage	Max. DC/Peak AC resistance	Volts	100	200	100	200
Switching current	Max. DC/Peak AC resistance	Amps	0.5	0.5	0.5	0.5
Carry current	Max. DC/Peak AC resistance	Amps	1.0	1.0	1.0	1.0
Contact rating	Max. DC/Peak AC resistance	Watts	10	10	10	10
Life expectancy	1V. 10mA	×10 ⁶ cycles	1000	1500	1000	1500
Contact resistance	Maximum initial	mΩ	150	150	150	150
Contact resistance stability	Maximum initial	mΩ	5.0	5.0	5.0	5.0
Relay Specifications						
Insulation resistance	Between all isolated pins at 100V 20°C 40%RH	Ω	10 ¹¹		10 ¹¹	
Capacitance		pF-Max				
Across open contacts	Shield guarding		0.2		0.2	
Contact to Shield	Contacts open, Shield floating		1.7		1.8	
Open contact to coil	Shield guarding		0.8		0.8	
Dielectric strength	Between contacts	VDC	250		250	
	Contacts to shield		250		250	
Operating time (Including. bounce)	At nominal coil voltage, 100Hz Square wave	msec	0.5		0.5	
Release time	Diode suppression	msec	0.5		0.5	
Environmental Ratings			Schematics Top view			
Measurement reference conditons			10□-1A□2□		10□-1A□2□-01	
Temp. : 15°C~35°C Humidity : 25%~85%RH						
Atmospheric pressure : 860~1060hPa						
Storage temp. : -40°C~+80°C						
Operating temp. : -20°C~+60°C						
The operating and Release Voltage and the coil resistance are specified at 20°C. These values change approximately 0.4%/°C change in the ambient temperature.						
Vibration : 20Gs to 2000Hz						
Shock : 50Gs						

10R Series

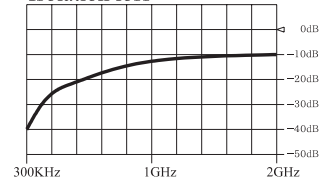
Insertion loss



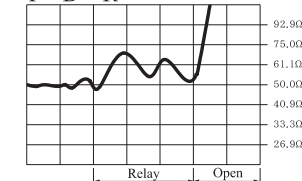
Return loss



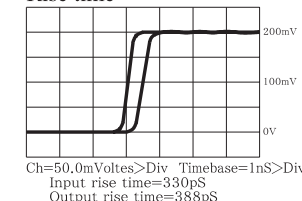
Isolation loss



T · D · R



Rise time



Notes :

- Values are specified with a resistive load being applied. A contact protective circuit is required for C and L type loads.
- The values for the operating time and release time however, are when the rated coil voltage is applied and a clamp diode is attached.
- Surface mount component processing temperature: 446°F (230°C) max. for 10 seconds dwell time. Temperature is measured at leads where they exit the package.

※ 1 Please contact sales department the availabilities of terminal style J-Lead.

※ 2 Please pay attention to the difference of Circuit between “10□-□A□2□” and “10□-□A□2□-01”

ORDERING CODE

1 0 □ - □ A □ 2 □ - □ □
(1) (2) (3) (4) (5)

Example 10R-1A12G Represents Series 10R with 1Form A, Dry Reed (Ruthenium), Coil Voltage 5V, Electrostatic Shield and Terminal Style Gull-Wing.

(1) Reed Switch Type

D-Dry Reed (Rhodium)
R-Dry Reed (Ruthenium)

(2) Number of capsule

1-1capsule
2-2capsules

(3) Coil Voltage

1-5VDC
2-12VDC

(4) Terminal Style

G-Gull- Wing
J-J-Lead ※ 1

(5) Special Code

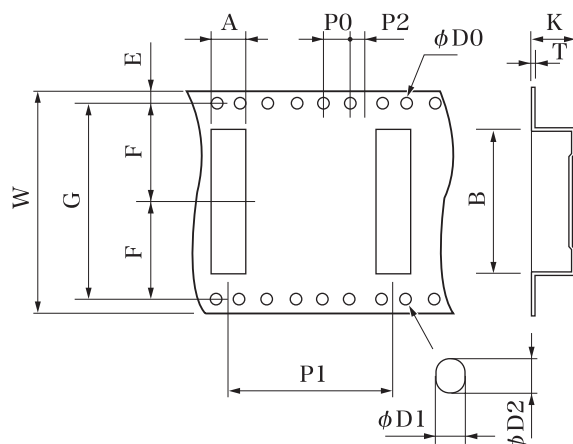
Example
01-0.075 inch(1.905mm) pitches ※ 2

Packing Specification

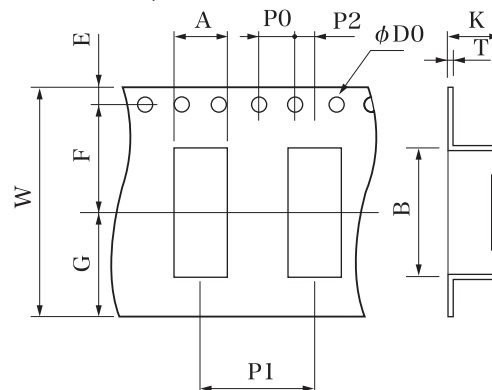
All dimensions are measured in inches (millimeters)

Tape shape & dimensions

10 □ -1A TYPE



1D-14 □, 1D-12 □ TYPE

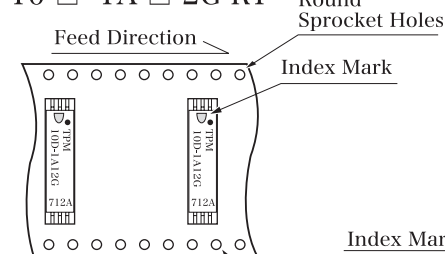


PKG Type	W	A	B	E	F	G	P ₀
10□-1A Type	1.26±0.012 (32.0)	0.2±0.004 (5.0)	0.82±0.006 (20.9)	0.07±0.004 (1.8)	0.56±0.004 (14.2)	1.118±0.012 (28.4)	0.157±0.004 (4.0)
1D-14J Type	0.94±0.012 (24.0)	0.2±0.004 (5.0)	0.43±0.005 (10.8)	0.069±0.004 (1.75)	0.45±0.004 (11.5)	0.42 (10.75)	0.157±0.004 (4.0)
1D-14G Type 1D-12G Type	0.94±0.012 (24.0)	0.2±0.004 (5.0)	0.52±0.006 (13.2)	0.069±0.004 (1.75)	0.45±0.004 (11.5)	0.42 (10.75)	0.157±0.004 (4.0)

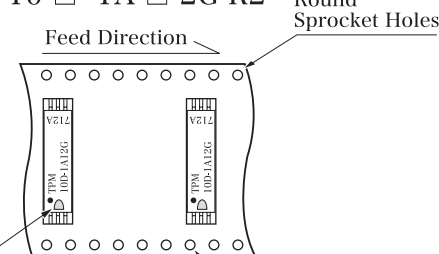
PKG Type	P ₁	P ₂	D ₀	D ₁	D ₂	K	T
10□-1A Type	0.94±0.004 (24.0)	0.08±0.004 (2.0)	0.059±0.004 (1.5)	0.06 (1.5)	0.07 (1.7)	0.22±0.012 (5.6)	0.016 (0.4)
1D-14J Type	0.47±0.004 (12.0)	0.08±0.004 (2.0)	0.059±0.004 (1.5)	—	—	0.216±0.012 (5.5)	0.016 (0.4)
1D-14G Type 1D-12G Type	0.47±0.004 (12.0)	0.08±0.004 (2.0)	0.059±0.004 (1.5)	—	—	0.21±0.012 (5.35)	0.016 (0.4)

Device mounting directions

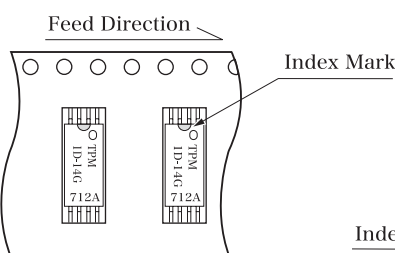
10 □ -1A □ 2G-R1



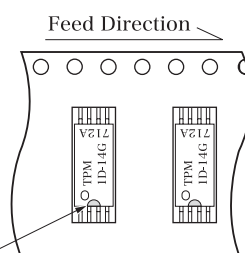
10 □ -1A □ 2G-R2



1D-14 □ -R1
1D-12 □ -R1



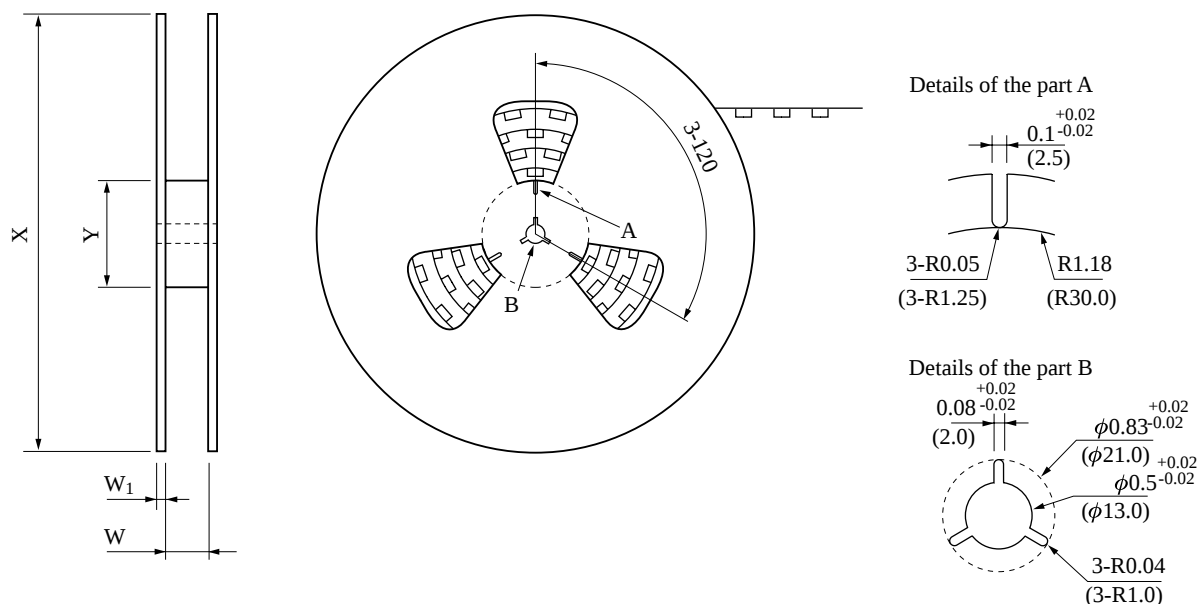
1D-14 □ -R2
1D-12 □ -R2



Two types of packaging (R1 & R2) are available. At the time of order, please specify the type you choose (R1 or R2), following the mention of the relay type. The packaging type (R1 or R2) is not to be imprinted on the product. Please be careful about the difference in arrangement direction between them.

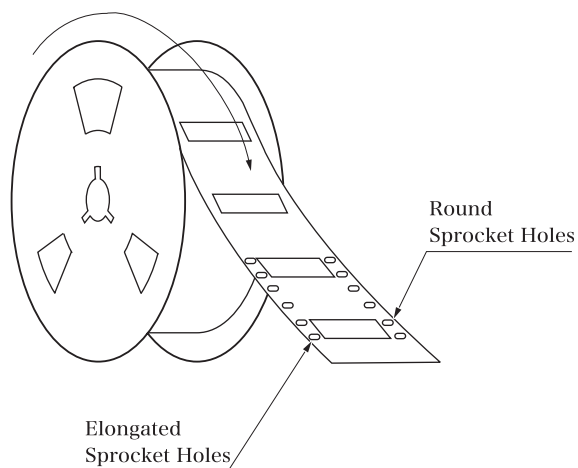
All dimensions are measured in inches (millimeters)

Reel shape & dimensions

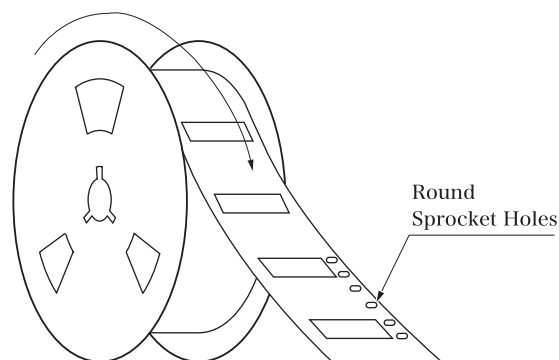


PKG Type	X	Y	W	W ₁	Quantity
10□-1A Type	12.6 ^{+0.079} ₀ (320)	3.15 ^{+0.02} ₀ (80)	1.28 ^{+0.079} ₀ (32.5)	0.11 (2.8)	500
1D-14□ 1D-12□ Type	12.6 ^{+0.079} ₀ (320)	3.15 ^{+0.02} ₀ (80)	1.0 ^{+0.035} _{-0.043} (25.4)	0.12 (3.0)	1000

(for 10 □ -1A type)



(for 1D -14 □, 1D-12 □ type)



Packaging conforms to EIA standard EIA-481-2 or EIA-481-3.

Please let our Sales Department know when the packing with tape-and-reel for 3D type and 17□ type will be needed.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru