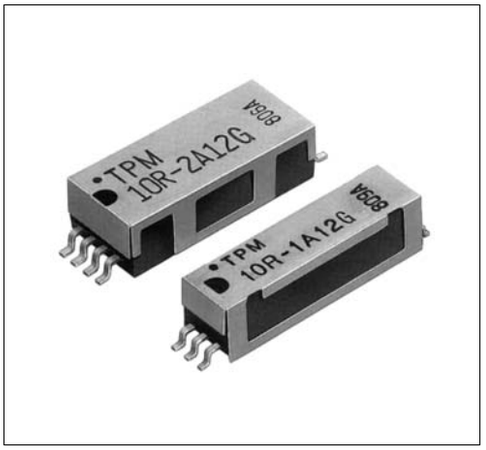
DB LECTRO
COMPOSANTS ÉLECTRONIQUES
ELECTRONIC COMPONENTS

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.

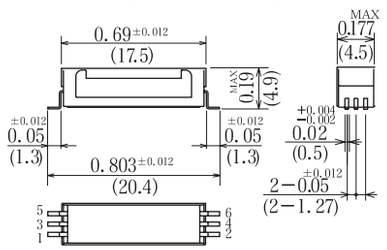
- Standard SMT relays
- Impedance 50Ω
- Electric magnetic shield available
- UL Certified

Detailed Terminal Figure
Angle
0～7.5°
Permissible Termina Deviation on the Side
0 ±0.004

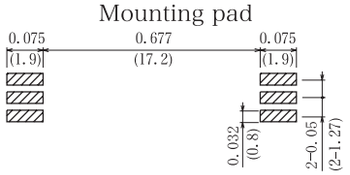
Mechanical Dimensions

All dimensions are measured in inches (millimeters).

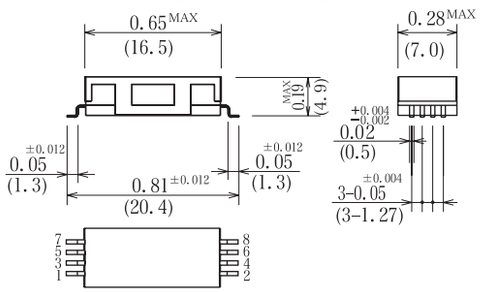
10□−1A□2G



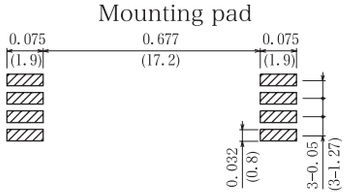
Mounting pad



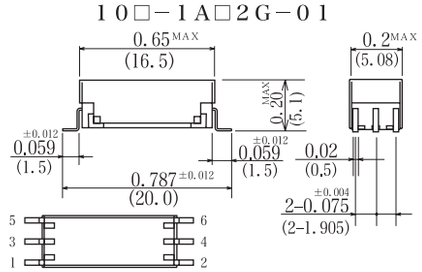
10□−2A□2G



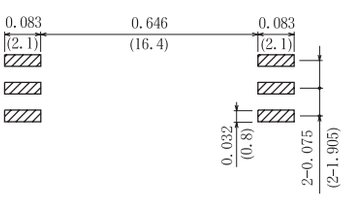
Mounting pad



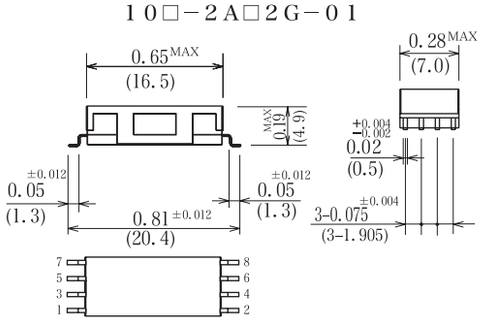
10□−1A□2G−01



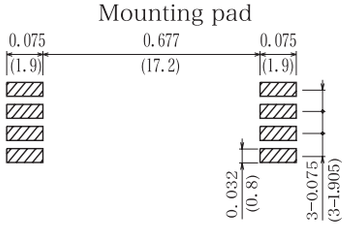
Mounting pad



10□−2A□2G−01



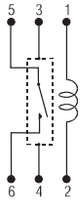
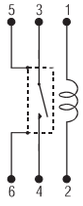
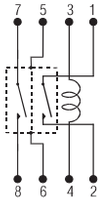
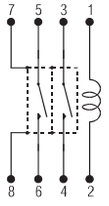
Mounting pad



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

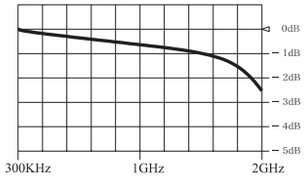
DB LECTRO
COMPOSANTS ÉLECTRONIQUES
ELECTRONIC COMPONENTS

10D, 10R Series

Parameters	Test Condition	Units	50Ω Coaxial Model Number 10D-1A□2□-□□ 1 Form A	50Ω Coaxial Model Number 10R-1A□2□-□□ 1 Form A	50Ω Coaxial Model Number 10D-2A□2□-□□ 2 Form A	50Ω Coaxial Model Number 10R-2A□2□-□□ 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	$\times 10^6$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 Mesurement reference conditons 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		Schematics Top view	10□-1A□2□ 	10□-1A□2□-01 	10□-2A□2□ 	10□-2A□2□-01 

10R Series

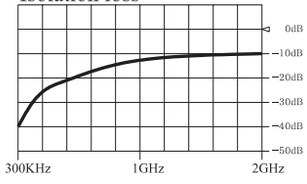
Insertion loss



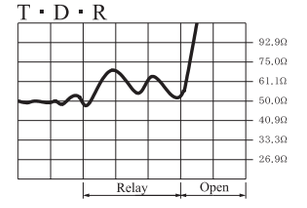
Return loss



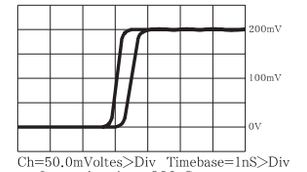
Isolation loss



T・D・R



Rise time



Ch=50.0mVoltes>Div Timebase=1nS>Div
Input rise time=330pS
Output rise time=388pS

Notes :

(1) Values are specified with a resistive load being applied. A contact protective circuit is required for C and L type loads.

(2) The values for the operating time and release time however, are when the rated coil voltage is applied and a clamp diode is attached.

(3) Surface mount component processing temperature:446ºF (230ºC) 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

DB LECTRO Inc. 3600 boul. Matte suite i Brossard Qc J4Y-2Z2 tel:(450)-444-1424 fax:(450)-444-4714 www.dblectro.com

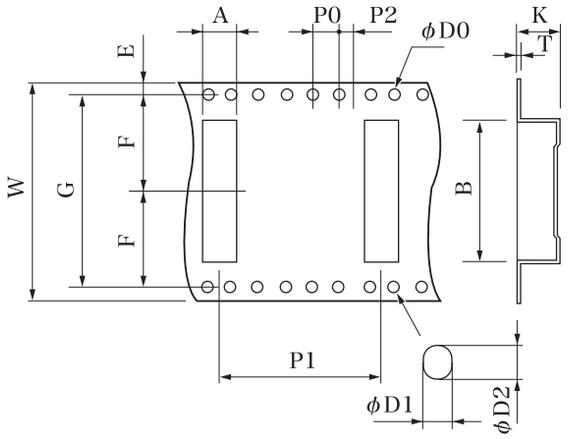
DB LECTRO INC
COMPOSANTS ÉLECTRONIQUES
ELECTRONIC COMPONENTS

Packing Specification

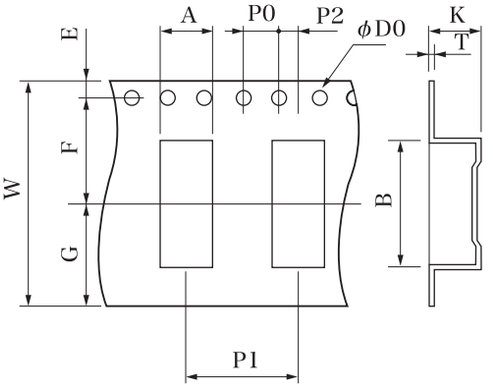
All dimensions are measured in inches (millimeters)

Tape shape & dimensions

10 □ -1A TYPE



1D-14 □, 1D-12 □ TYPE

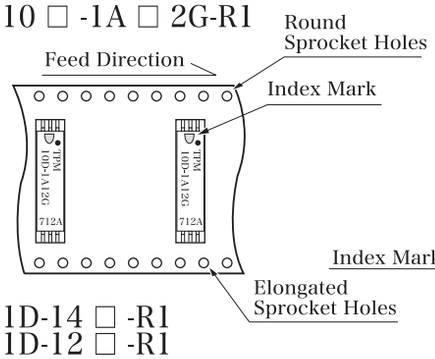


PKG Type	W	A	B	E	F	G	P_0
10□-1A Type	$1.26^{\pm0.012}$ (32.0)	$0.2^{\pm0.004}$ (5.0)	$0.82^{\pm0.006}$ (20.9)	$0.07^{\pm0.004}$ (1.8)	$0.56^{\pm0.004}$ (14.2)	$1.118^{\pm0.012}$ (28.4)	$0.157^{\pm0.004}$ (4.0)
1D-14J Type	$0.94^{\pm0.012}$ (24.0)	$0.2^{\pm0.004}$ (5.0)	$0.43^{\pm0.005}$ (10.8)	$0.069^{\pm0.004}$ (1.75)	$0.45^{\pm0.004}$ (11.5)	0.42 (10.75)	$0.157^{\pm0.004}$ (4.0)
1D-14G 1D-12G Type	$0.94^{\pm0.012}$ (24.0)	$0.2^{\pm0.004}$ (5.0)	$0.52^{\pm0.006}$ (13.2)	$0.069^{\pm0.004}$ (1.75)	$0.45^{\pm0.004}$ (11.5)	0.42 (10.75)	$0.157^{\pm0.004}$ (4.0)

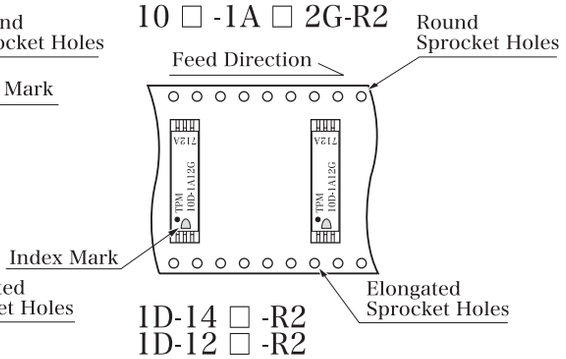
PKG Type	P_1	P_2	D_0	D_1	D_2	K	T
10□-1A Type	$0.94^{\pm0.004}$ (24.0)	$0.08^{\pm0.004}$ (2.0)	$0.059^{+0.004}_{-0}$ (1.5)	0.06 (1.5)	0.07 (1.7)	$0.22^{\pm0.012}$ (5.6)	0.016 (0.4)
1D-14J Type	$0.47^{\pm0.004}$ (12.0)	$0.08^{\pm0.004}$ (2.0)	$0.059^{+0.004}_{-0}$ (1.5)	——	——	$0.216^{\pm0.012}$ (5.5)	0.016 (0.4)
1D-14G 1D-12G Type	$0.47^{\pm0.004}$ (12.0)	$0.08^{\pm0.004}$ (2.0)	$0.059^{+0.004}_{-0}$ (1.5)	——	——	$0.21^{\pm0.012}$ (5.35)	0.016 (0.4)

Device mounting directions

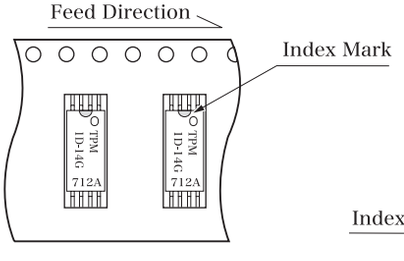
10 □ -1A □ 2G-R1



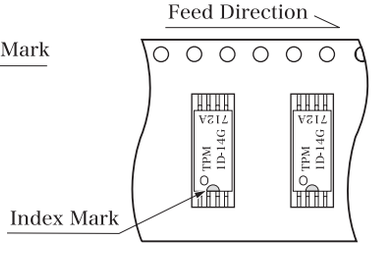
10 □ -1A □ 2G-R2



1D-14 □ -R1
1D-12 □ -R1



1D-14 □ -R2
1D-12 □ -R2

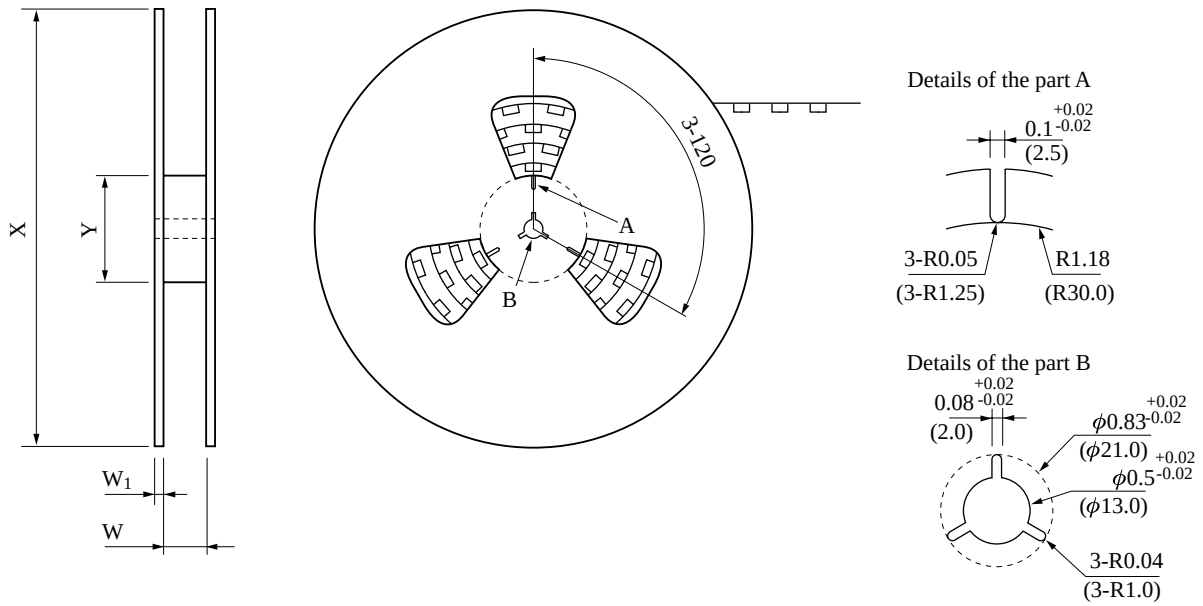


Two types of packaging (R1 & R2) are available. At the time of order, please specify the type you choose (R1 or R2), following the mention of the relay type. The packaging type (R1 or R2) is not to be imprinted on the product. Please be careful about the difference in arrangement direction between them.

DB LECTRO Inc. 3600 boul. Matte suite i Brossard Qc J4Y-2Z2 tel:(450)-444-1424 fax:(450)-444-4714 www.dblectro.com

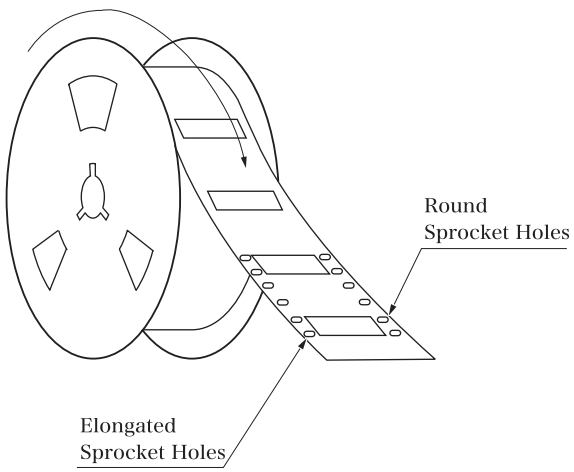
All dimensions are measured in inches (millimeters)

Reel shape & dimensions

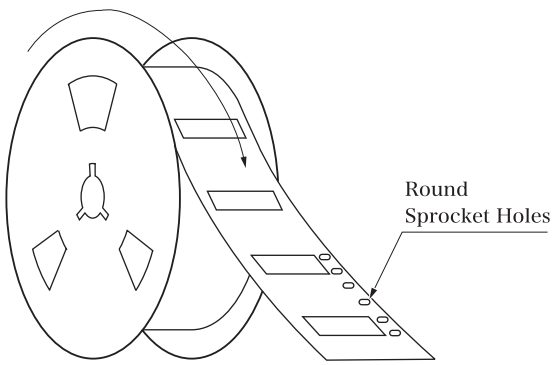


PKG Type	X	Y	W	W_1	Quantity
10□-1A Type	$12.6^{\pm 0.079}$ (320)	$3.15^{\pm 0.02}$ (80)	$1.28^{+0.079}_{0}$ (32.5)	0.11 (2.8)	500
1D-14□ Type 1D-12□ Type	$12.6^{\pm 0.079}$ (320)	$3.15^{\pm 0.02}$ (80)	$1.0^{+0.035}_{-0.043}$ (25.4)	0.12 (3.0)	1000

(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.

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9