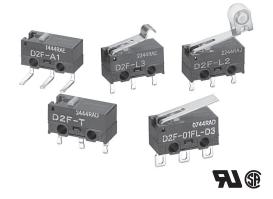
Snap Action Switch

Subminiature Snap Action Switch

- Switches 3 A loads (general-purpose), 1 A loads (low force general-purpose) and 0.1 A loads(microvoltage/ microcurrent)
- · Long life span assured by high-precision dual spring reverse-action mechanism
- · Flux penetration prevented by using an insert terminal and allowing a height difference at the case bottom
- Ideal for a wide range of applications including appliances, office equipment, audio and communications equipment
- RoHS Compliant



Ordering Information

Actuator	Contact type	Model	Contact OF	Model					
				Terminal type					
				РСВ	Self- supporting	Solder	Compact Solder	Right-angle	Left-angle
Pin plunger	Microvoltage/	Low force	75 g	D2F-01F	D2F-01F-T	D2F-01F-D3	D2F-01F-D	D2F-01F-A	D2F-01F-A1
	current	Standard	150 g	D2F-01	D2F-01-T	D2F-01-D3	D2F-01-D	D2F-01-A	D2F-01-A1
	General-	Low force	75 g	D2F-F	D2F-F-T	D2F-F-D3	D2F-F-D	D2F-F-A	D2F-F-A1
	purpose	Standard	150 g	D2F	D2F-T	D2F-D3	D2F-D	D2F-A	D2F-A1
Hinge lever	Microvoltage/ current	Low force	25 g	D2F-01FL	D2F-01FL-T	D2F-01FL-D3	D2F-01FL-D	D2F-01FL-A	D2F-01FL-A1
		Standard	80 g	D2F-01L	D2F-01L-T	D2F-01L-D3	D2F-01L-D	D2F-01L-A	D2F-01L-A1
	General- purpose	Low force	25 g	D2F-FL	D2F-FL-T	D2F-FL-D3	D2F-FL-D	D2F-FL-A	D2F-FL-A1
		Standard	80 g	D2F-L	D2F-L-T	D2F-L-D3	D2F-L-D	D2F-L-A	D2F-L-A1
Simulated	Microvoltage/ current	Low force	40 g	D2F-01FL3	D2F-01FL3-T	D2F-01FL3-D3	D2F-01FL3-D	D2F-01FL3-A	D2F-01FL3-A1
roller lever		Standard	80 g	D2F-01L3	D2F-01L3-T	D2F-01L3-D3	D2F-01L3-D	D2F-01L3-A	D2F-01L3-A1
~	General- purpose	Low force	40 g	D2F-FL3	D2F-FL3-T	D2F-FL3-D3	D2F-FL3-D	D2F-FL3-A	D2F-FL3-A1
~		Standard	80 g	D2F-L3	D2F-L3-T	D2F-L3-D3	D2F-L3-D	D2F-L3-A	D2F-L3-A1
Roller lever	Microvoltage/ current	Low force	40 g	D2F-01FL2	D2F-01FL2-T	D2F-01FL2-D3	D2F-01FL2-D	D2F-01FL2-A	D2F-01FL2-A1
		Standard	80 g	D2F-01L2	D2F-01L2-T	D2F-01L2-D3	D2F-01L2-D	D2F-01L2-A	D2F-01L2-A1
R	General-	Low force	40 g	D2F-FL2	D2F-FL2-T	D2F-FL2-D3	D2F-FL2-D	D2F-FL2-A	D2F-FL2-A1
<u> </u>	purpose	Standard	80 g	D2F-L2	D2F-L2-T	D2F-L2-D3	D2F-L2-D	D2F-L2-A	D2F-L2-A1

Model Number Legend

2.

D2F	-		

- 1 2 3 4
- 1. Ratings None: General loads
 - 01: Micro loads (0.1 A at 30 VDC)
 - Maximum Operating Force None: 1.47 N {150 gf}
 - F: 0.74 N {75 gf}
 - Note: These OF values are for the pin plunger models.
- 3. Actuator
 - None: Pin plunger
 - L: Hinge lever
 - L2: Hinge roller lever
 - L3: Simulated roller lever
- Left-angled PCB terminals -D3: Solder terminals

Terminals

-T:

-A:

-A1:

4

-D: Compact solder terminals

None: PCB terminals/straight terminals

Self-clinching PCB terminals

Right-angled PCB terminals

Specifications

■ Characteristics

Operating speed	1 to 500 mm/second (pin plunger models)		
Operating frequency	Mechanical: 200 operations per minute max.		
	Electrical: 30 operations per minute max.		
Contact resistance	General Purpose: $30 \text{ m}\Omega$ max. (Standard force versions) 50 m Ω max. (Low force versions)		
	Microload: 100 m Ω max.		
Insulation resistance	100 MΩ min. at 500 VDC		
Dielectric strength (See note 2)	600 VAC, 50/60 Hz for 1 minute between terminals of same polarity		
	1,500 VAC, 50/60 Hz for 1 minute between current-carrying metal parts and ground, and between each terminal and non-current-carrying metal parts		
Vibration resistance (See note 3)	Malfunction: 10 to 55 Hz, 1.5 mm double amplitude		
Shock resistance (See note 3)	Destruction: 1,000 m/s ² (approx. 100G) max.		
	Malfunction: 300 m/s ² (approx. 30 g min.) max.		
Degree of protection	IEC IP40		
Degree of protection against electric shock	Class I		
Proof tracking index (PTI)	175		
Ambient operating temperature	-25° to 65°C (at 60% RH) with no icing		
Ambient operating Humidity	85% max. (for 5° to 35°C)		
Service life	Mechanical: 1 million operations min. at 60 operations/minute.		
(Consult Omron for test conditions)	Electrical: 30,000 operations min. at 30 operations/minute.		
Weight	Approx. 0.5 g (pin plunger models)		

Note: 1. Data shown are of initial value.

- 2. The dielectric strength shown in the table indicates a value for models with a separator.
- 3. For pin plunger models, the values are measured at the free position and total travel position. For the lever models, they are measured at the total travel position.

Ratings

Rated Voltage Resistive load				
	Microvoltage/current (D2F	-01 models)	General-purpose (D2F models)	
	Low force	Standard	Low force	Standard
125 VAC	—	—	1 A	3 A
30 VDC	0.1 A	0.1 A	0.5 A	2 A

Note: 1. When using an inductive load or motor load, consult OMRON.

2. The ratings apply under the following test conditions: Ambient Temperature = 20±2°C, Ambient Humidity = 65±5%, Operating frequency = 30 operations/min.

■ Approvals UL Recognized, CSA Certified

	D		
Rated voltage	Standard Force	Low Force	D2F-01
125 VAC	3 A	1A	
30 VDC	2 A	0.5 A	0.1 A

Note: The rated values approved by each of the safety standards (e.g.UL,CSA) may be different from the performance characteristics individually defined in this catalog.

■ Contact Specifications

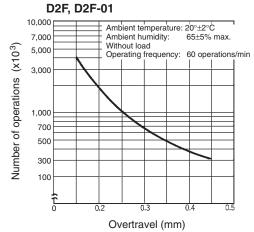
Item	D2F	D2F-01
Specification	Crossbar	
Material	Silver alloy Gold alloy	
Gap (Standard value)	0.25 mm	
Minimum Applicable Load (See note)	100 mA at 5 VDC	1 mA at 5VDC

Note: Minimum applicable loads are indicated by N standard reference values. This value represents the failure rate at a 60% (λ_{60}) reliability level (JIS C5003).

The equation $\lambda_{60}{=}0.5$ x $10^{-6}/operations$ indicates that a failure rate of 1/2,000,000 operations can be expected at a reliability level of 60%.

Engineering Data

Mechanical Service Life



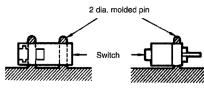
Note: Values are for pin plunger actuator type.

Mounting

All switches may be panel mounted using M2 mounting screws with plane washers or spring washers to securely mount the switch. Tighten the screws to a torque of 0.08 to 0.1 N·m.

Two , 2-dia. mounting holes

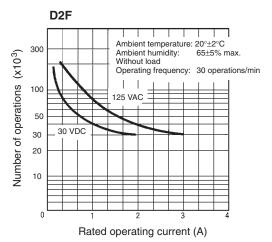
Use of molded components is recommended for mounting purposes



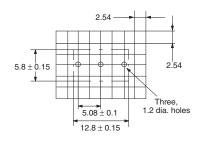
Structure Contact Form (SPDT)







■ PCB Layout (reference)

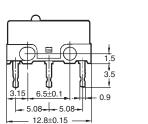


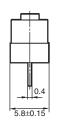
Dimensions

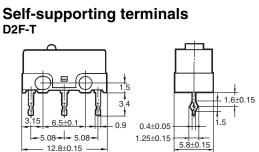
Terminals

Note: Unless otherwise specified, all units are in millimeters and a tolerance of ± 0.4 mm applies to all dimensions

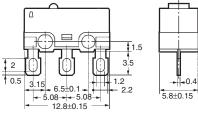
PCB terminals



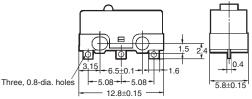




Solder terminals D2F-D3



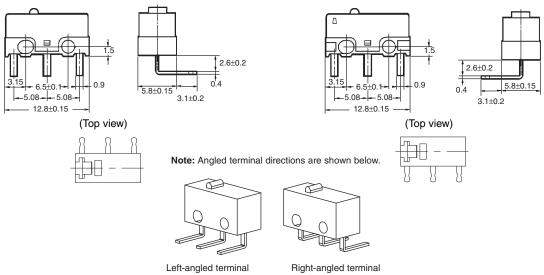
Compact solder terminals D2F-D



Left-angle PCB terminals

D2F-A1

Right-angle PCB terminals D2F-A



34 Snap Action Switch **D2F**

Dimensions and Operating Characteristics

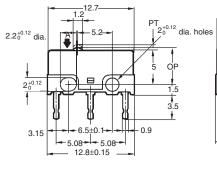
Note: 1. Unless otherwise specified, all units are in millimeters and a tolerance of ± 0.4 mm applies to all dimensions

- 2. Omitted dimensions are the same as pin plunger type.
- 3. The following illustrations and dimensions are for models with PCB terminals. Refer to "Terminals" for models with self-supporting, solder and right / left angle terminal specifics.
- 4. The operating characteristics are for operation in the A direction (\clubsuit)

Pin Plunger Models

D2F-D2F-01-D2F-F-D2F-01F-





Characteristics	D2F-⊡ D2F-01-⊡	D2F-F-□ D2F-01F-□
OF max.	150 g	75 g
RF min.	20 g	5 g
PT max.	0.5 mm	0.5 mm
OT min.	0.25 mm	0.25 mm
MD max.	0.12 mm	0.12 mm
OP	$5.5\pm0.3~\text{mm}$	$5.5\pm0.3~\text{mm}$
FP max.		

0.4 5.8±0.15

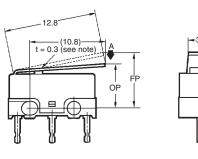
.5 7_

2.9

Hinge Lever Models







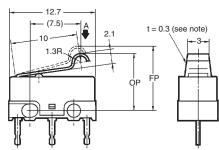
Note: Stainless-steel lever

Characteristics	D2F-L-□ D2F-01L-□	D2F-FL-□ D2F-01FL-□
OF max.	80 g	25 g
RF min.	5 g	2 g
PT max.		_
OT min.	0.55 mm	0.55 mm
MD max.	0.5 mm	0.5 mm
ОР	6.8 ± 1.5 mm	$6.8\pm1.5~\text{mm}$
FP max.	10 mm	10 mm

Simulated Roller Lever Models

D2F-L3- D2F-01L3- D2F-FL3- D2F-01FL3- D2F-01FL3-

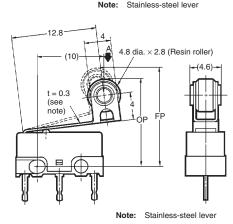




Characteristics	D2F-L3-□ D2F-01L3-□	D2F-FL3-□ D2F-01FL3-□
OF max.	80 g	40 g
RF min.	5 g	2 g
PT max.		
OT min.	0.5 mm	0.5 mm
MD max.	0.45 mm	0.45 mm
ОР	$8.5\pm1.2~\text{mm}$	$8.5\pm1.2\ \text{mm}$
FP max.	13 mm	13 mm

Hinge Roller Lever Models D2F-L2-D2F-01L2-D2F-FL2-D2F-01FL2-





Characteristics	D2F-L2-□ D2F-01L2-□	D2F-FL2-□ D2F-01FL2-□
OF max.	80 g	40 g
RF min.	5 g	2 g
PT max.		_
OT min.	0.55 mm	0.55 mm
MD max.	0.5 mm	0.5 mm
OP	$13\pm2.0~\text{mm}$	$13\pm2.0~\text{mm}$
FP max.	16.5 mm	16.5 mm

Precautions

Be sure to read the precautions and information common to all Snap Action and Detection Switches, contained in the Technical User's Guide, "Snap Action Switches, Technical Information" for correct use.

Correct Use

Mounting

Turn OFF the power supply before mounting or removing the switch, wiring the switch, or performing maintenance or inspection. Failure to do so may result in electric shock or burning.

Mount the switch onto a flat surface. Mounting on an uneven surface may cause deformation of the switch, resulting in faulty operation or breakage of the housing.

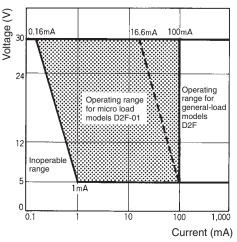
Allow sufficient insulation distance between terminals, terminal traces and between terminals and ground.

Operating Stroke Setting

Take particular care in setting the operating stroke for the pin plunger models. Make sure that the operating stroke is 70% to 100% of the rated OT distance. Do not operate the actuator exceeding the OT distance, otherwise the service life of the switch maybe decreased.

Using Microloads

Using a model for ordinary loads to switch microloads may result in faulty operation. Instead, use the models that are designed for micro-loads and that operate in the following range;



However, even when using microload models within the operating range shown above, if inrush current or inductive voltage spikes occur when the contact is opened or closed, it may increase contact wear and so decrease the service life. Therefore, insert a contact protection circuit where necessary.

Cautions

Terminal Connection

When soldering a lead wire to the terminal, first insert the lead wire conductor into the terminal hole and then perform soldering.

Make sure that the capacity of the soldering iron is 30 W maximum and that the temperature of the soldering tip is approximately 300 °C. (350 °C maximum.) Complete soldering within 3 s. After soldering, do not apply external force to the soldered area for about 1 minute.

Using a switch with improper soldering may result in abnormal heating, possibly resulting in a burn.

Applying the soldering iron for more than 3 s or using an iron that is rated for more than 30 W may deteriorate the switch characteristics.

When soldering the lead wire to the PCB terminal, pay careful attention so that the flux and solder liquid level does not exceed the PCB level.

Omron Electronic Components, LLC

Terms and Conditions of Sales

- I. GENERAL Definitions: The words used herein are defined as follows. Terms: These terms and conditions (a) Seller: Omron Electronic Components LLC and its subsidiaries (b) The buyer of Products, including any end user in section III through VI Buyer: (c) Products: Products and/or services of Seller (d) Including without limitation e) Including: 2. Offer: Acceptance: These Terms are deemed part of all quotations, acknowledgments, invoices, purchase orders and other documents, whether electronic or in writing, relating to the sale of Products by Seller. Seller hereby objects to any Terms proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these
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- Currencies: If the prices quoted herein are in a currency other than U.S. dollars, Buyer 5. shall make remittance to Seller at the then current exchange rate most favorable to Seller; provided that if remittance is not made when due, Buyer will convert the amount to U.S. dollars at the then current exchange rate most favorable to Seller available during the period between the due date and the date remittance is actually made.
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- 9 Cancellation; Etc: Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Seller fully against all costs or expenses arising in connection therewith.
- 10. Force Majeure: Seller shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
- 11.
- Shipping: Delivery: Unless otherwise expressly agreed in writing by Seller: (a) All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point tile to and all risk of loss of the Products shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Products until the full purchase price is paid by Buyer;
 - Delivery and shipping dates are estimates only; and
 - Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
- 12. Claims: Any claim by Buyer against Seller for shortage or damage to the Products occurring before delivery to the carrier or any claim related to pricing or other charges must be presented in detail in writing to Seller within 30 days of receipt of shipment.

III. PRECAUTIONS

- Suitability: IT IS THE BUYER'S SOLE RESPOINSIBILITY TO ENSURE THAT ANY Suitability: It is the buyer's sole responsibility to ensure that any OMRON PRODUCT IS FIT AND SUFFICIENT FOR USE IN A MOTORIZED VEHICLE APPLICATION. BUYER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING APPROPRIATENESS OF THE PARTICULAR PRODUCT WITH RESPECT TO THE BUYER'S APPLICATION INCLUDING (A) ELECTRICAL OR ELECTRONIC COMPONENTS, (B) CIRCUITS, (C) SYSTEM ASSEMBLIES, (D) END PRODUCT, (E) SYSTEM (E) MATERIALS OF SUBSTANCES OF (C) OPEDATING ENVIRONMENT SYSTEM, (F) MATÉRIALS OR SUBSTANCES OR (G) OPERATING ENVIRONMENT. Buyer acknowledges that it alone has determined that the Products will meet their requirements of the intended use in <u>all</u> cases. Buyer must know and observe all prohibitions of use applicable to the Product/s.
- Use with Attention. The followings are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible use of any Product, nor to imply that any use listed may be suitable for any Product:
 - Outdoor use, use involving potential chemical contamination or electrical (a) interference.

- (b) Use in consumer Products or any use in significant quantities.
- Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and (c)
- installations subject to separate industry or government regulations.
 (d) Systems, machines, and equipment that could present a risk to life or property. <u>Prohibited Use:</u> NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE PROPUERTY PROPERTY AND NOT ALL TO FOR THE WITHOUT ENVIRONMENT. 3. PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
- Wotorized Vehicle Application: USE OF ANY PRODUCT/S FOR A MOTORIZED VEHICLE APPLICATION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY SELLER.
- Programmable Products: Seller shall not be responsible for the Buyer's programming of a programmable Product. 5.

IV. WARRANTY AND LIMITATION

- Warranty: Seller's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT ALL OTHER WARRANTIES, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS.
- Buyer Remedy: Seller's sole obligation hereunder shall be to replace (in the form 2 originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product or, at Seller's election, to repay or credit Buyer an amount equal to the purchase price of the Product; provided that there shall be no liability for Seller or its affiliates unless Seller's analysis confirms that the Products were correctly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be
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- Indemnities: Buyer shall indemnify and hold harmless Seller, its affiliates and its employees from and against all liabilities, losses, claims, costs and expenses (including attorney's fees and expenses) related to any claim, investigation, litigation or proceeding (whether or not Seller is a party) which arises or is alleged to arise from Buyer's acts or omissions under these Terms or in any way with respect to the Products.

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- Intellectual Property: The intellectual property embodied in the Products is the exclusive property of Seller and its affiliates and Buyer shall not attempt to duplicate it in any way without the written permission of Seller. Buyer (at its own expense) shall indemnify and hold harmless Seller and defend or settle any action brought against Seller to the extent that it is based on a claim that any Product made to Buyer specifications infringed intellectual property rights of another party.
- Property: Confidentialty: Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Seller. All information and materials supplied by Seller to Buyer relating to the Products are 2 confidential and proprietary, and Buyer shall limit distribution thereof to its trusted employees and strictly prevent disclosure to any third party. <u>Performance Data</u>: Performance data is provided as a guide in determining suitability
- 3. and does not constitute a warranty. It may represent the result of Seller's test conditions, and the users must correlate it to actual application requirements.
- Change In Specifications: Product specifications and descriptions may be changed at any time based on improvements or other reasons. It is Seller's practice to change part numbers when published ratings or features are changed, or when significant engineering changes are made. However, some specifications of the Product may be changed without any notice.
- Errors And Omissions: The information on Seller's website or in other documentation 5. has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.
- Export Controls: Buyer shall comply with all applicable laws, regulations and licenses 6. regarding (a) export of the Products or information provided by Seller; (b) sale of Products to forbidden or other proscribed persons or organizations; (c) disclosure to noncitizens of regulated technology or information.

VI. MISCELLANEOUS

- <u>Waiver</u>: No failure or delay by Seller in exercising any right and no course of dealing between Buyer and Seller shall operate as a waiver of rights by Seller. 1.
- Assignment: Buyer may not assign its rights hereunder without Seller's written consent. Law: These Terms are governed by Illinois law (without regard to conflict of laws). Federal and state courts in Cook County, Illinois have exclusive jurisdiction for any 2 3.
- dispute hereunder. Amendment: These Terms constitute the entire agreement between Buyer and Seller 4 relating to the Products, and no provision may be changed or waived unless in writing signed by the parties.
- Severability: If any provision hereof is rendered ineffective or invalid, such provision shall 5 not invalidate any other provision.

Certain Precautions on Specifications and Use

- <u>Suitability for Use</u>. Seller shall not be responsible for conformity with any stan-dards, codes or regulations which apply to the combination of the Product in Buyer's application or use of the Product. At Buyer's request, Seller will provide applicable third party certification documents identifying ratings and limi-tations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in com-Sufficient of a complete other minimum of the sufficient of the Product in com-bination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the par-ticular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases but the following is a non-exhaustive list of applications for which particular attention must be given: (i) Outdoor use involving potential obspirate logatominities explorations
 - Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
 - (ii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations

 - Use in consumer products or any use in significant quantities. Systems, machines and equipment that could present a risk to life or (iv) property. Please know and observe all prohibitions of use applicable to this product

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- 5.
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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.



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