

# TM-189 Rotary Damper

## TM-190



### Characteristic

H.G. damper is new type shock damping component, using oil viscosity. Using with compression coiled spring, tensile coiled spring, or torsion coiled spring, smooth and quiet open and close / back and forth action can be made for a lid or a door. It suits for a device with which shock damping or higher grade feeling is required. TM-189 and TM-190 differs each other with their fixing direction.

### Application

Interior of vehicles (globe compartments, ashtrays) / Audio devices / Home appliances / Office automation appliances / Office utilities

### Specification

#### 1. Gear Specification (for both TM-189 and TM-190)

Type	Standard Spur Gear
Tooth Profile	Involute Full Depth Tooth
Module	0.8
Pressure Angle	20°
No. of Teeth	11
Pitch Diameter	φ 8.8

Permissible temperature range  
-30°C ~ 80°C

#### 2. Type of Torque

##### TM-189

Model No.	20 r.p.m Ordinary Temp. Torque mN · m(gf · cm)	Rotor Color	Net Weight (g)	Code No.
TM-189-1	1.96±0.98(20±10)	Red	1.2	7601
TM-189-2	3.92±1.47(40±15)	Black		7602
TM-189-3	6.87±1.96(70±20)	White		7603
TM-189-4	9.81±1.96(100±20)	Blue		7604

##### TM-190

Model No.	20 r.p.m Ordinary Temp. Torque mN · m(gf · cm)	Rotor Color	Net Weight (g)	Code No.
TM-190-1	1.96±0.98(20±10)	Red	1.3	7605
TM-190-2	3.92±1.47(40±15)	Black		7606
TM-190-3	6.87±1.96(70±20)	White		7607
TM-190-4	9.81±1.96(100±20)	Blue		7608

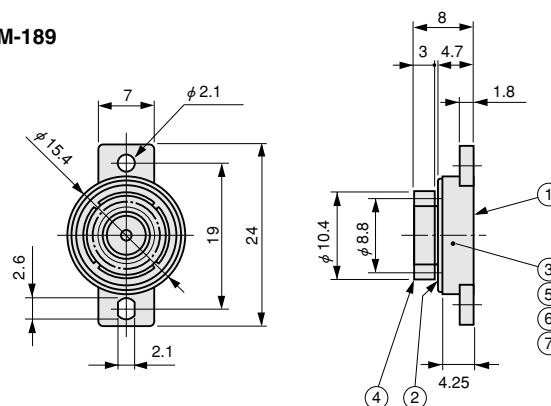
#### 3. Rack TM-189/190

As shown in application example, a rack can be integrally molded with a cabinet panel or a side panel for your application. Please consult with us.

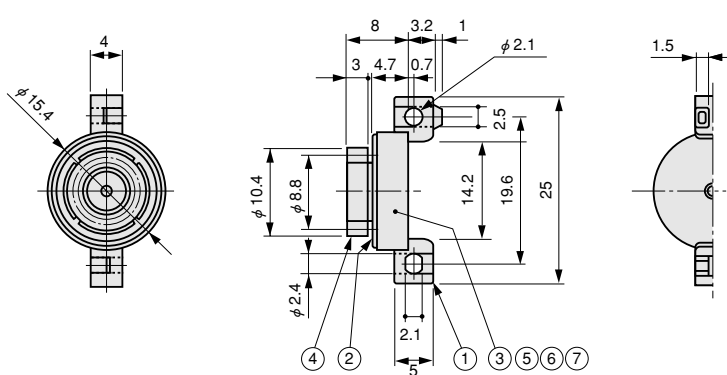
#### Parts List (for both TM-189 and TM-190)

No.	Part Name	Material	Finish	Quantity
1	Housing	PC	Black	1
2	Cap		Gray	1
3	Rotor	PBT	See Another Table	1
4	Gear	PA	Black	1
5	O-Ring (A)	SI	Red	1
6	O-Ring (B)	NBR	Black	1
7	Silicon Oil	—	Transparent	—

#### TM-189



#### TM-190



Application Example  
※ -Marked parts are not included

