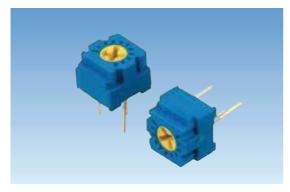
サーメットトリマ Single-Turn Cermet Trimmers

GF063 Series



RoHS 指令対応 RoHS compliant

■特徴

- ●種類が豊富
- ●高性能、高信頼性(マルチ接点ワイパーを採用)
- ●自動調整対応タイプにつき、調整用ドライバーの挿入が容易
- ●密封構造につき、各種洗浄液による洗浄が可能
- ●シャフト径が大きく、市販の調整ドライパー使用可

■ Features

- wide variety of models available.
- Excellent performance and high reliability with precious metal. multi-contact wiper design.
- Cross slot design allows automatic machine adjustment.
- Sealed to withstand immersion cleaning processes with various cleaning agent.
- Large dia. shaft helps to use commercially available adjustment drivers.

■品名構成 PART NUMBER COMPOSITION



シリーズ名 Series name

製品形状

P,W,U,P1: 上面調整 X,X1,S,S1,V: 側面調整

Product shape

P,W,U,P1: Top adjustment X,X1,S,S1,V: Side adjustment

抵抗変化特性 B:直線性

Resistance taper

B: Linear

梱包形態

: テーピング (リール) Τ :テーピング(つづら折り)

無印 : バラ袋詰め

: モールドツマミ付き

Form of packaging

: Taping (reel type) : Taping (ammo pack type) T2

Blank: Vinyl pack : With knob type

公称抵抗值(3桁) Nominal resistance value (3digits) 記号 Code Multiplier $\times 10^{\circ}$ 0 $\times 10^{1}$ 2 × 10² ... 6 $\times 10^{6}$ 乗数 Multiplier 抵抗値(単位 Ω) Resistance (Unit Ω)

《標準公称抵抗值》

《Nominal resistance value》

					
公称抵抗值 Nominal resistance value	記号 Code	公称抵抗值 Nominal resistance value	記号 Code	公称抵抗值 Nominal resistance value	記号 Code
10 Ω	100	20 Ω	200	50 Ω	500
100 Ω	101	200 Ω	201	500 Ω	501
lkΩ	102	2kΩ	202	5kΩ	502
10kΩ	103	20kΩ	203	50kΩ	503
100kΩ	104	200kΩ	204	500kΩ	504
1ΜΩ	105	2ΜΩ	205	_	_

■電気的特性 ELECTRICAL CHARACTERISTICS

全抵抗値範囲	Total resistance range	10 Ω∼2ΜΩ	10Ω to $2M\Omega$	
全抵抗値許容差	Total resistance tolerance	± 20% (± 10%)	± 20% (± 10%)	
残留抵抗值	End resistance	1%又は1Ωの大なる値以下	1% or $1~\Omega$, whichever is greater	
抵抗変化特性	Resistance taper	B(直線型)	B (Linear)	
接触抵抗変化	Contact resistance variation	1%又は 1 Ωの大なる値以下	1% or $1~\Omega$, whichever is greater	
定格電力	Power rating	0.5W / 70°C OW / 125°C	0.5W / 70℃ OW / 125℃	
最高使用電圧	Max. input voltage	DC 250V 又は V =√(WR) により定格電力を超えない値		
421012/11-8/2		DC 250V or power rating, whichever is smaller		
抵抗温度係数	Temp. coefficient	± 100ppm /℃	± 100ppm /°C	
絶縁抵抗	Insulation resistance	1,000MΩ以上 (DC 500V)	1,000MΩ min. (DC 500V)	
耐電圧	Dielectric strength	AC 900V 1分間	AC 900V 1 minute	
電気的回転角度	Electrical angle	220°±10度	220° ± 10°	

■機械的特性 MECHANICAL CHARACTERISTICS

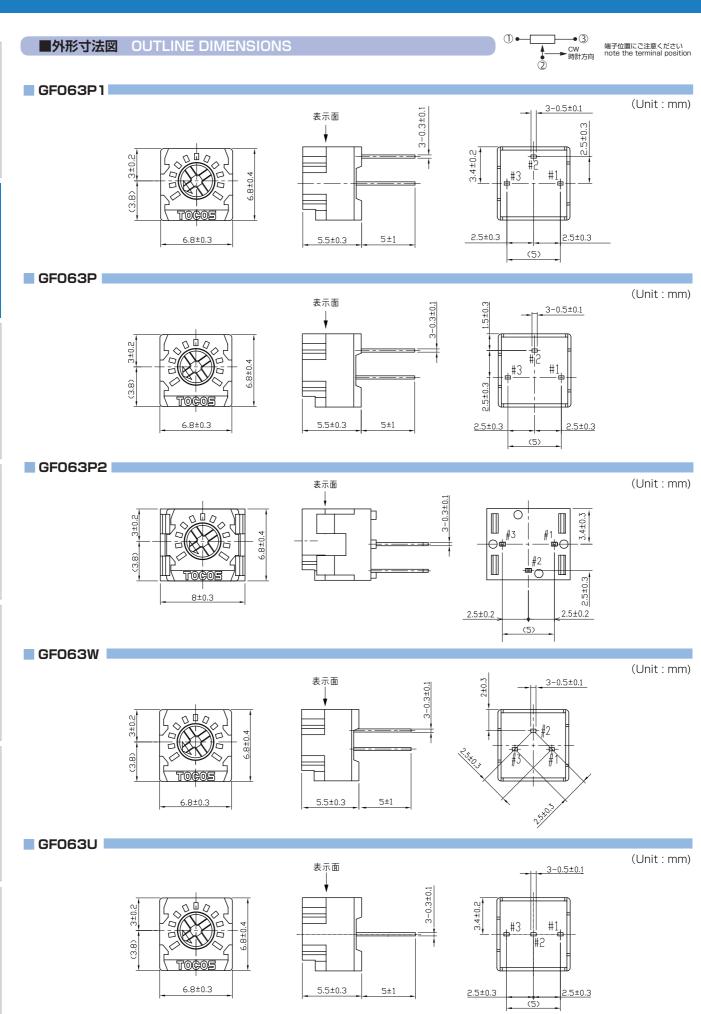
機械的回転角度	Mechanical angle	250°±10度 250°±10°	
回転トルク	Shaft torque	$0.98 \sim 19.6$ mN·m ($10 \sim 200$ gf·cm)	
ストップ強度	Stop strength	49.0mN·m以上 (500gf·cm以上) 49.0mN·m min. (500gf·cm min.)	
使用温度範囲	Operating temp. range	- 55°C+ 125°C - 55°C+ 125°C	
端子強度	Terminal strength	引っ張り 9.8N以上(1kgf以上)/90°折り曲げ3回以上 Tensile strength 9.8N min. (1kgf min.)/Bend strength 90°3 times min.	
シャフト強度	Shaft strength	シャフト押し強度 9.8N(1kgf 以上) Push strength 9.8N (1kgf min.)	
質量	Weight	0.41g max.: P1,P,W,U 0.52g max.: X,X1,S,S1,V	

■環境特性 ENVIRONMENTAL CHARACTERISTICS

試験項目 Test item		試験条件 Test conditions	規 格 Standard	
はんだ耐熱性		350°C 3秒 350°C 3 sec.	△R / R ≦±1%	
回転寿命	Rotational life	100 サイクル 100 cycles	△R / R ≦± (2 Ω+ 3%)	
負荷寿命	Load life	70°C 0.5W 1,000 hours	△R/R≦±3% S.S. ≦±2%	
熱衝撃	Thermal shock	- 55℃, + 125℃ (30 minutes) 5 cycles	△R / R ≦± 1% S.S. ≦± 1%	
高周波振動	Vibration	10Hz~2kHz 振幅 1.5mm(196m/s²)12 時間	△ R / R ≦ ± 1% S.S. ≦ ± 1%	
		10Hz to 2kHz Amplitude 1.5mm(196m/s²) 12 hr.		
衝撃	Shock	981m/s² 6msec. 6directions for 3times each	△ R / R ≦±1% S.S. ≦±1%	
低温動作 Low temperature exposure		- 55℃, 0.5W 2時間 - 55℃, 0.5W 2hr.	△R/R≦±2% S.S. ≦±2%	
高温露出 Higl	n temperature exposure	+ 125℃, 250 時間 + 125℃, 250 hr.	△R/R≦±2% S.S. ≦±2%	
耐湿負荷寿命	Moisture and load life	+ 40°C, 90 to 95% RH 0.5W 500 hr.	△R/R≦±3% S.S.≦±2%	
耐湿性	Moisture resistance	-10° C to $+65^{\circ}$ C (90 to 95% RH)	△R/R≦±2%	
		0.5W 240 hr.	△11/ 11 = 1 2 70	
温水浸漬	計入表表 Seal test + 85℃ hot water 1 minute		3 bubbles max.	
耐溶剤性	Solvent	IPA 等 Alternative CFC, IPA etc.	洗浄可能 Washable	

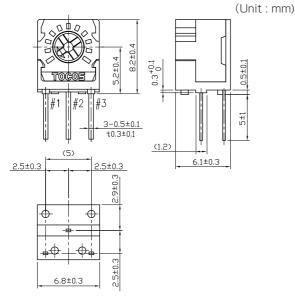
△ R / R: 全抵抗値変化 S.S.: 設定安定度 $\triangle\,R\,/\,R$: Change in total resistance

S.S.: Setting stability

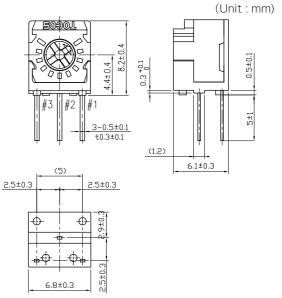




■ GF063X ■

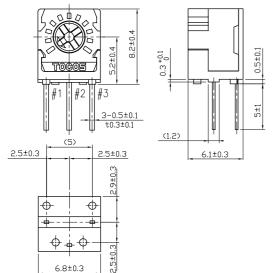


■ GF063X1

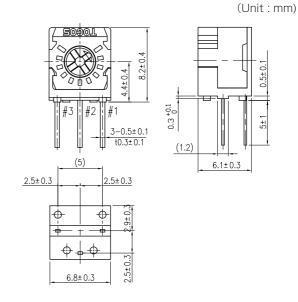


■ GF063S ■



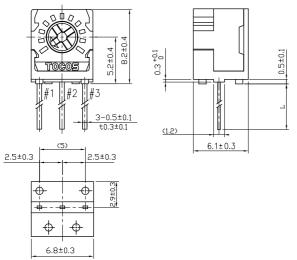


GF063S1



■ GF063V ■

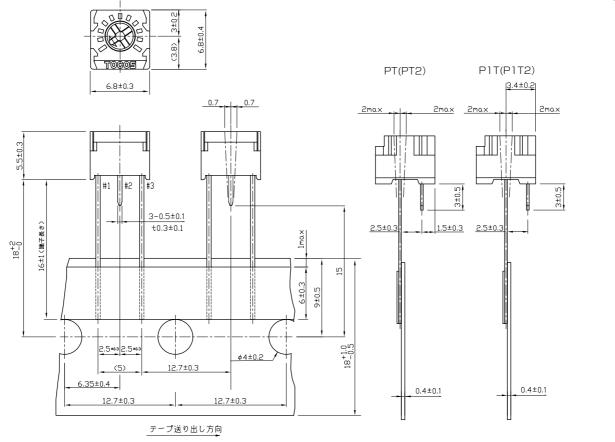






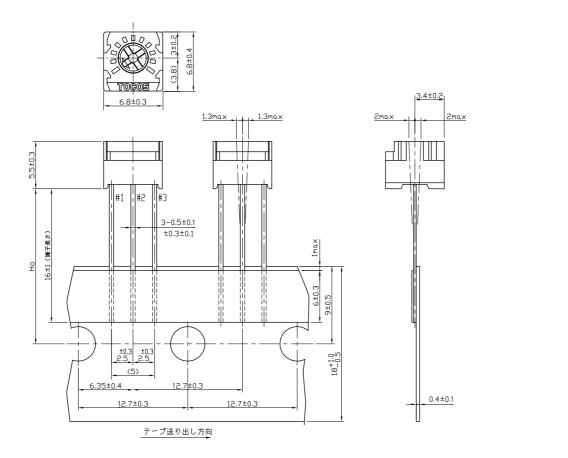
■ GF063P1T / GF063P1T2 |





■ GF063UT / GF063UT2 |

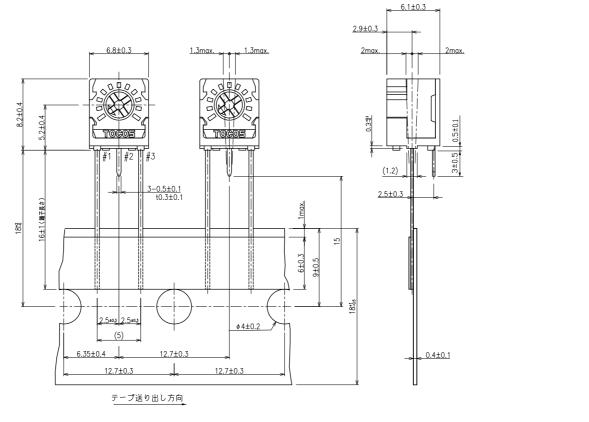
(Unit:mm)





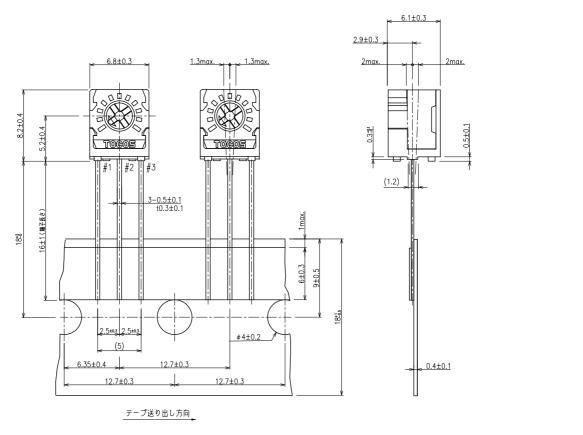
■ GF063ST / GF063ST2 ■

(Unit:mm)



■ GF063VT / GF063VT2 ■

(Unit:mm)



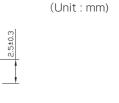


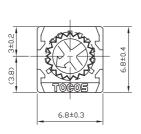
2.5±0.3

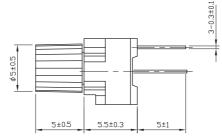
3-0.5±0.1

2.5±0.3

■ GF063P1K ■

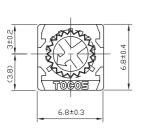


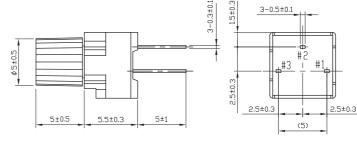






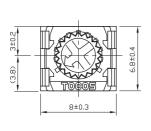


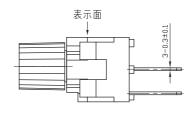


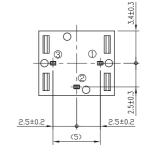


■ GF063P2K ■

(Unit: mm)

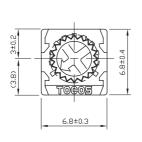


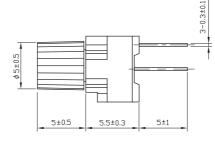


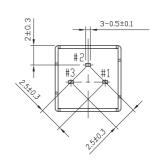


■ GF063WK

(Unit : mm)

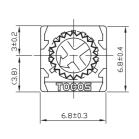


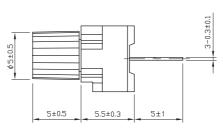


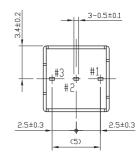


■ GF063UK ■

(Unit : mm)





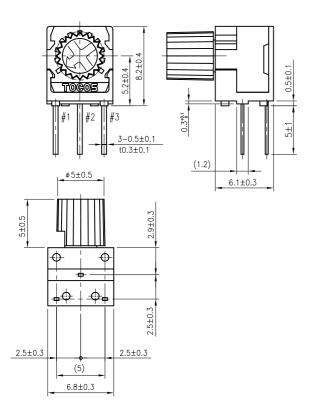


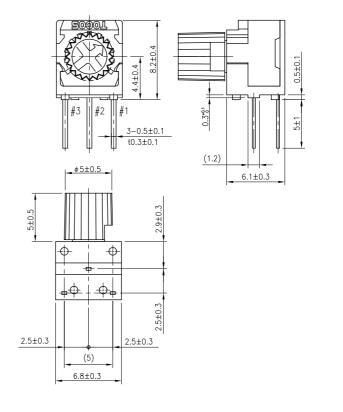


■ GF063XK ■

(Unit:mm)

GF063X1K (Unit:mm)

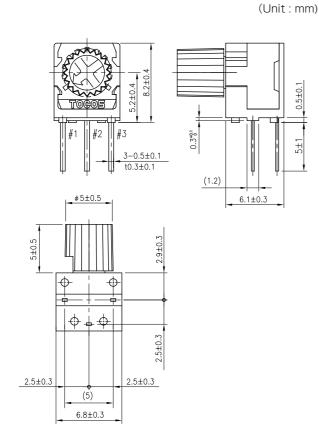


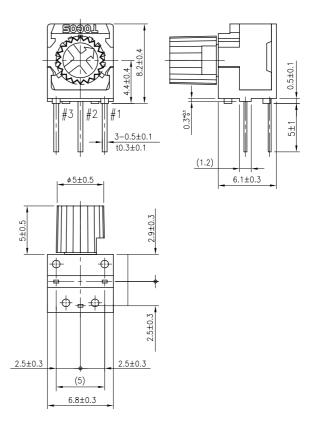


GF063SK

■ GF063S1K

(Unit : mm)

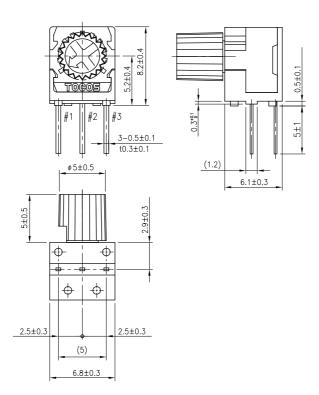






■ GF063VK

(Unit: mm)



■梱包仕様

[テーピングの梱包仕様]

- ●テーピングは 1,000 個 / テーピング単位の相包になりますので、1,000 個単位 (1,000 個 2,000 個 3,000 個…) でのご注文をお願い致します。
- ●テーピンク. の箱詰めは、『つづら折り (T2)、『リール (T) ともに 1 リールごとに化粧箱に梱包致します。

[ビニール袋の梱包仕様]

●ビニール袋で、の最小相包は、50個/袋となりますので、 50個単位 (50個 100個 150個…) でのご注文をお願 い致します。

■ PACKAGING SPECIFICATIONS

[Packaging Specification with Taping]

- The taping specification products have packed in unit of 1,000 pcs./reel. You are requested to place orders in the minimum unit of 1,000 pcs. at least (1,000, 2,000, 3,000 pcs.).
- The taping specification products are packed in parts boxes per reel both for "Reeled parts (T)" and "Ammo pack (T2)"

[Vinyl Bag Specification Packing]

The minimum packing of vinyl bag is 50 pcs./bag.
You are requested to place your orders in the units.