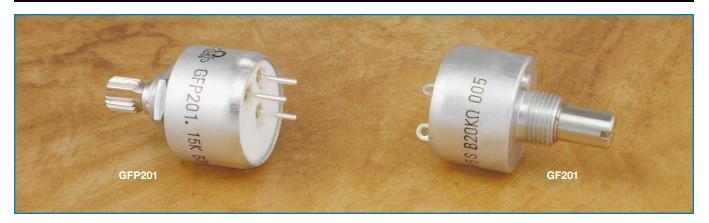
GF201 Series



20mm Diameter, Single-Turn, Cermet Industrial Panel Controls



Features_

■ 20mm diameter, single-turn industrial panel controls ■ Cermet film element ■ Single unit, single shaft ■ Excellent environmental characteristics
■ Wide temperature range of -10°C to +125°C
■ Metal shaft and bushing ■ Linear taper ■ Shaft lock available ■ Panel or PCB vertical mount ■ Rear exit lug or pin terminals ■ 6mm diameter shafts in slot, flat or round end styles ■ Standard 15mm or 20mm shaft length

Specifications_

Electrical

Standard Resistance Range	100 Ω to 1M Ω
Resistance Tolerance	±10% standard
End Resistance	$\dots \dots 3\Omega \text{ max}.$
Resistance Taper	B = linear
Peak Noise (C.R.V.) 3	3% or 5Ω , whichever is greater
Power Rating 1 w	att at +70°C, 0 watt at +120°C
Maximum Input Voltage	350VDC or power rating, whichever is smaller
Temperature Coefficient	\pm 100 ppm/°C, 200 Ω to 500k Ω \pm 250 ppm/°C, other values
Dielectric Strength	1,000VAC, 1 minute

Mechanical

Mechanical Tra	avel
Shaft Torque	50 to 300 gf•cm (0.693 to 4.159 oz•in)
Stop Strength	6 kgf•cm (83.18 oz•in) max.
Solderability .	235°C, 5 seconds
Marking	Model type, taper, resistance, shaft type, terminal identification, date code

Environmental

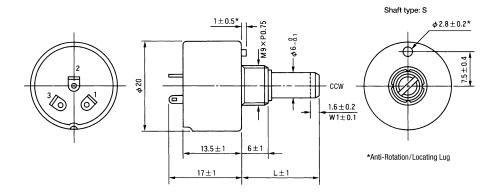
Temperature Range
Load Life +70°C, 1,000 hours with rated load $\Delta T/R \leqq \pm 5\%$
Thermal Shock
Soldering Heat Resistance
Rotational Life 15,000 cycles (500 cycles for shaft lock models only) without load $\Delta T/R \leqq \pm 5\%$

AT/R = Total Resistance Change

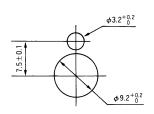
TOCOS AMERICA, INC. __

GF201 Unit: mm

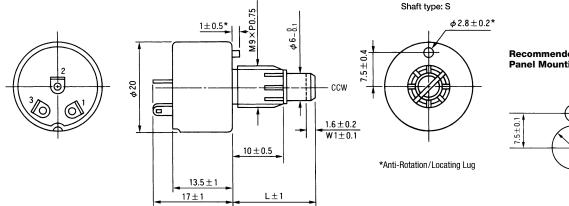
Panel Mount, Single Unit, Single Shaft Rear Exit Vertical Lug Terminals, 3-Lug Triangular Pattern



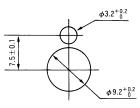
Recommended **Panel Mounting Holes**



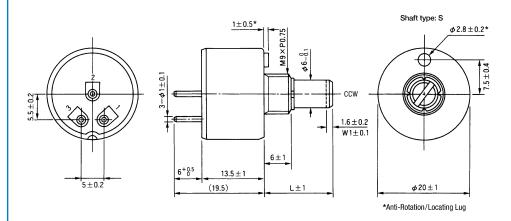
GF201L Panel Mount, Single Unit, Single Shaft with Shaft Lock Rear Exit Vertical Lug Terminals, 3-Lug Triangular Pattern



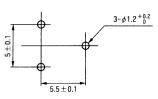
Recommended **Panel Mounting Holes**



GFP201 PCB Mount, Single Unit, Single Shaft Rear Exit Vertical Mount Pin Terminals, 3-Pin Triangular Pattern

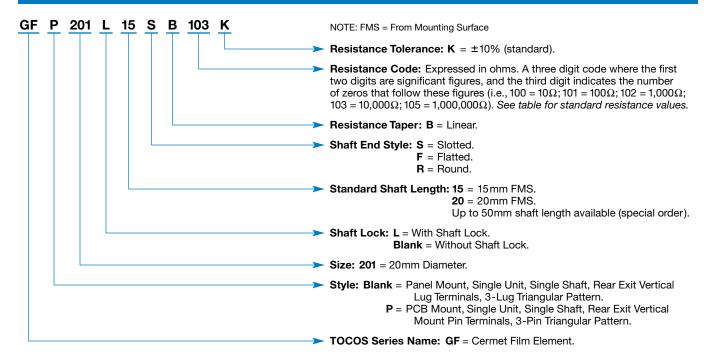


Recommended **PCB Mounting Holes**





Part Numbering System



Standard Resistance Values and Part Numbering Codes

Standard Nominal Total Resistance Values and Part Numbering Codes

Resistance (Ω)	Code								
100	101	1,000	102	10,000	103	100,000	104	1,000,000	105
200	201	2,000	202	20,000	203	200,000	204		
500	501	5,000	502	50,000	503	500,000	504		

Refer to Shaft End Styles Specifications and Hardware Specifications for details and availability. For additional information, refer to Guidelines and Precautions for Using Panel Controls.