Perfecting the Art of Electronics
ALPS

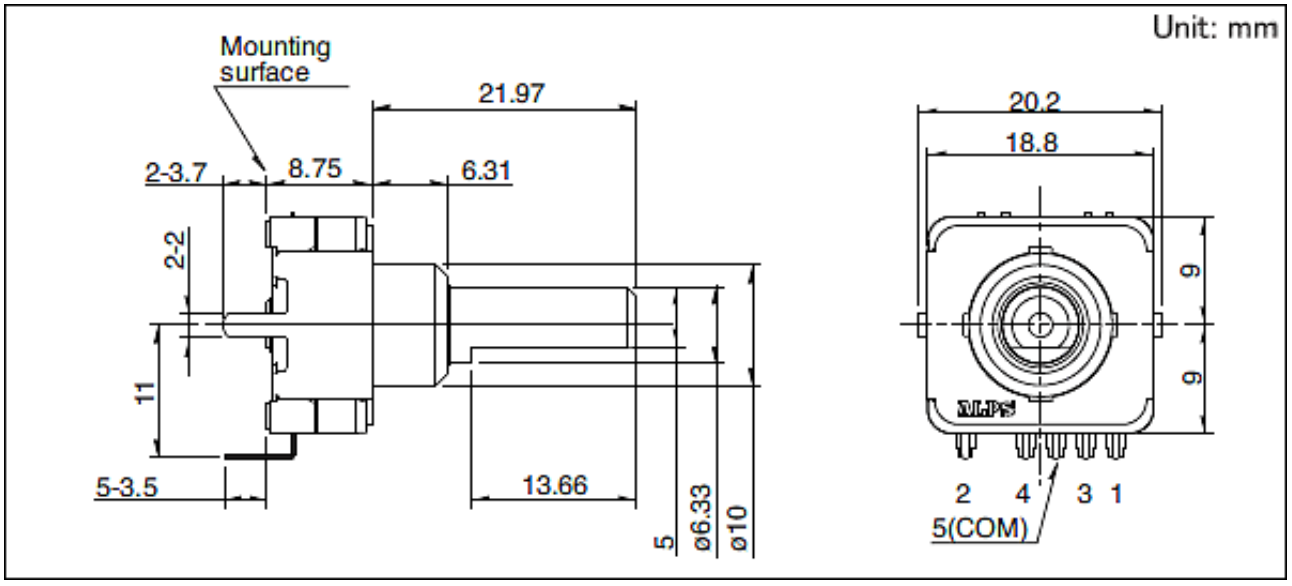
18mm Size Insulated Shaft Type EC18A Series

Part number		**EC18AGA20402**
Actuator configuration		Flat
Actuator length		21.97mm
Detent torque		60±20mN·m
Operating direction		Vertical
Positions		12
Operating temperature range		-20℃ to +60℃
Electrical performance	Rating	1mA 10V DC
	Insulation resistance	10MΩ min. 250V DC
	Voltage proof	50V AC for 1 minute or 60V AC for 2s
Mechanical performance	Push-pull strength	Push 100N / Pull 50N
Durability	Operating life	30,000 cycles
Waterproof Property		Immersion of encoder, not in operation, in water at depth of 1m at normal temperature for 30 minutes.
Minimum order unit (pcs.)	Japan	450
	Export	900

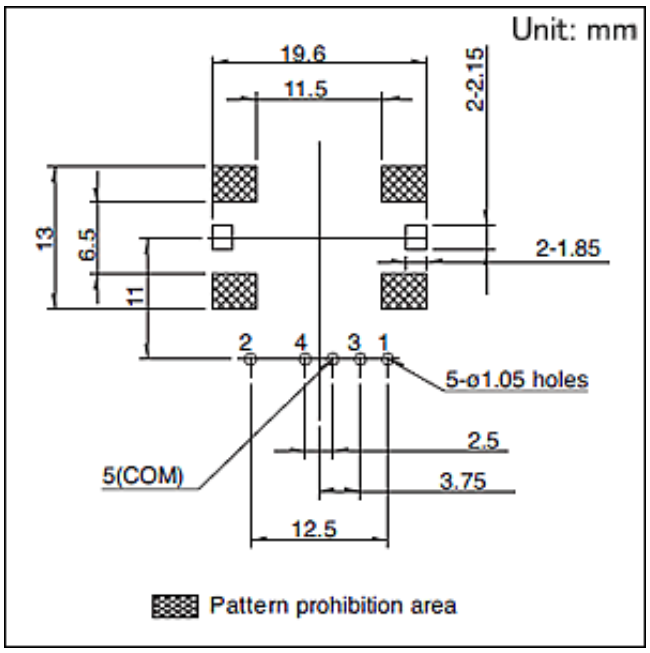
Photo



Dimensions



Mounting Hole Dimensions



Standard Codes

Position No.		1	2	3	4	5	6	7	8	9	10	11	12
Rotation angle (°)		0	30	60	90	120	150	180	210	240	270	300	330
TERMINAL NO.	1		●	●			●	●			●	●	
	2			●	●	●	●						
	3					●	●	●	●	●	●		
	4									●	●	●	●
	5(COM)	●	●	●	●	●	●	●	●	●	●	●	●

Packing Specifications

Tray

Number of packages (pcs.)	1 case / Japan	450
	1 case / export packing	900
Export package measurements (mm)		540×360×270

Soldering Conditions

Reference for Dip Soldering

Preheating	Soldering surfacetemperature	100℃ max.
	Heating time	2 min. max.
Dip soldering	Soldering temperature	260±5℃
	Soldering time	5±1s
No. of solders		2 time max.

Reference for Hand Soldering

Tip temperature	350℃ max.
Soldering time	3s max.
No. of solders	1 time

Notes are common to this series/models.

1. This site catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
2. Please place purchase orders per minimum order unit (integer).
3. Products other than those listed in the above chart are also available. Please contact us for details.

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

ALPS ALPINE:

SKRRAAE010 SPPH430200 SPVL110102 EC11E15244G1 RK12L12C0A0G SKHLLFA010 SRBV181004 SSSF025100 RK09712200JB RK14K12D0A1X SKHCBKA010 SKHUAME010 EC12E1220401 RSA0N1119006 SKRAALE010 SKSTAAE010 SKSTACE010 RK09D1130C2P SKSTABE010 EC28A1870401 SKRBAAE010 SKSGAAE010 SPPJ320600 SPVS310100 SSSS916400 EC12E24204A9 SPPB2A0101 SKHHAKA010 SSSS223200 EC12D1564402