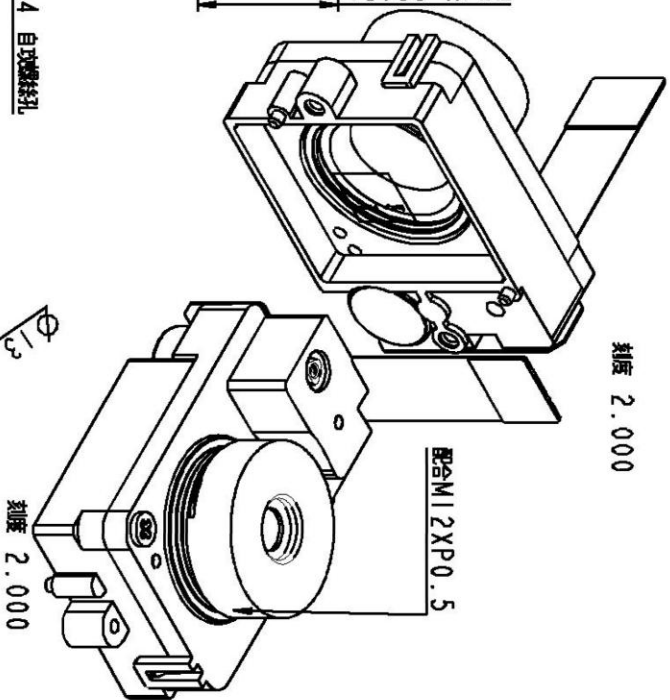
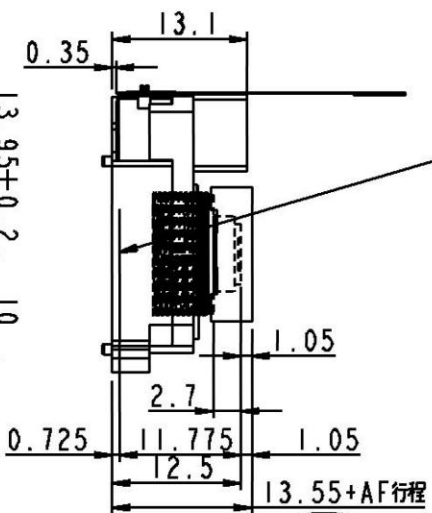
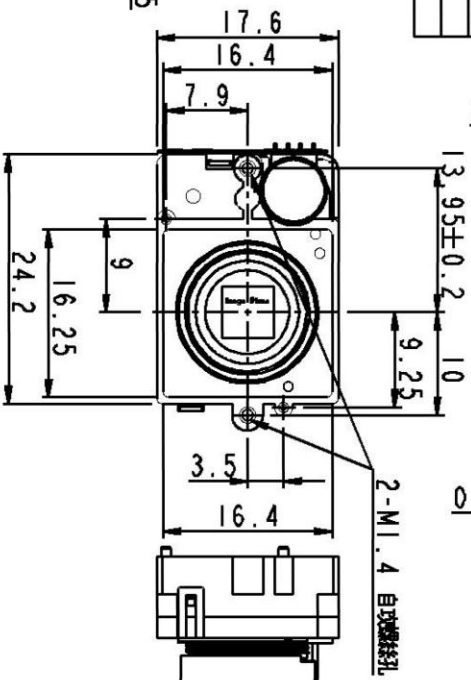
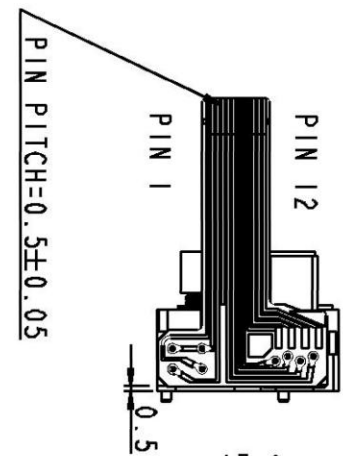


PIN NO	FUNCTION		
1	Pi-Emitter		
2	Pi-Anode		
3	Pi-Cathode		
4	EMPTY		
PIN NO	TERMINAL	NEAR<----->FAR	
5	STEPPING MOTOR A	H H L L	
6	STEPPING MOTOR B bot	H L L H	
7	STEPPING MOTOR A bot	L L H H	
8	STEPPING MOTOR B	L H H L	
PIN NO	FUNCTION	APE Ø1.2APE Ø4.5	
9	SOL. APERTURE	+	
10	SOL. APERTURE	-	
PIN NO	FUNCTION	SH CLOSE	SH OPEN
11	SOL. SHUTTER	+	-
12	SOL. SHUTTER	-	+



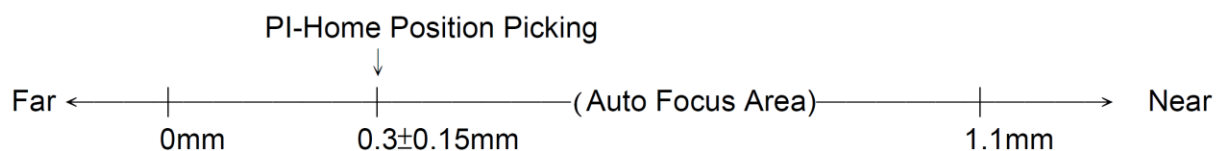
SHUTTER

✦ Speed	1/800~1/1100 s
✦ 快門口徑	$\varphi 4.5 \text{ mm} \pm 0.03$
✦ 切換後口徑	$\varphi 1.2 \text{ mm} \pm 0.03$
✦ 外形	12.9×12.9mm
✦ RATING VOLTAGE	3.0DCV
✦ POWER CONSUMPTION	0.69w (3.0 DCV)
✦ RATING CURRENT	230mA (3.0 DCV)
✦ DC RESISTANCE	$11\Omega \pm 10\%$ (At 20°C)
✦ LIFE EXPECTANCY	10,000 Time Min. With 30ms Pulse Width & 1Hz Work Cycle
✦ MOVABLE TEMPERATURE RANGE	-10°C To +50°C

AUTO FOCUS

✦ SENSOR SIZE	Max. 1 / 1.8"
✦ FOCUS METHOD	Whole lens unit move focusing
✦ HOME POSITION DETECT	PI signal output
✦ AF ACTUATOR	Stepping motor
✦ DRIVER MODE	BI-polar driving
✦ RATED VOLTAGE	4 VDC
✦ COIL RESISTANCE	$25\Omega \pm 10\%$
✦ NO.OF PHASES	2 phases
✦ STEP ANGLE	18°/step (1 step=0.0125mm)
✦ MAXIMUM STARTING FREQUENCY	More than 1100 pps(AT 4.0V)
✦ MAXIMUM SLEWING FREQUENCY	More than 2000 pps(AT 4.0V)
✦ INSULATION CLASS	Class E for coils
✦ INSULATION STRENGTH	110V AC for one second
✦ INSULATION RESISTANCE	$1.0M\Omega$ (DC 100V)
✦ MOVABLE TEMPERATURE RANGE	-10°C To +60°C
✦ AF STROKE	0.8mm

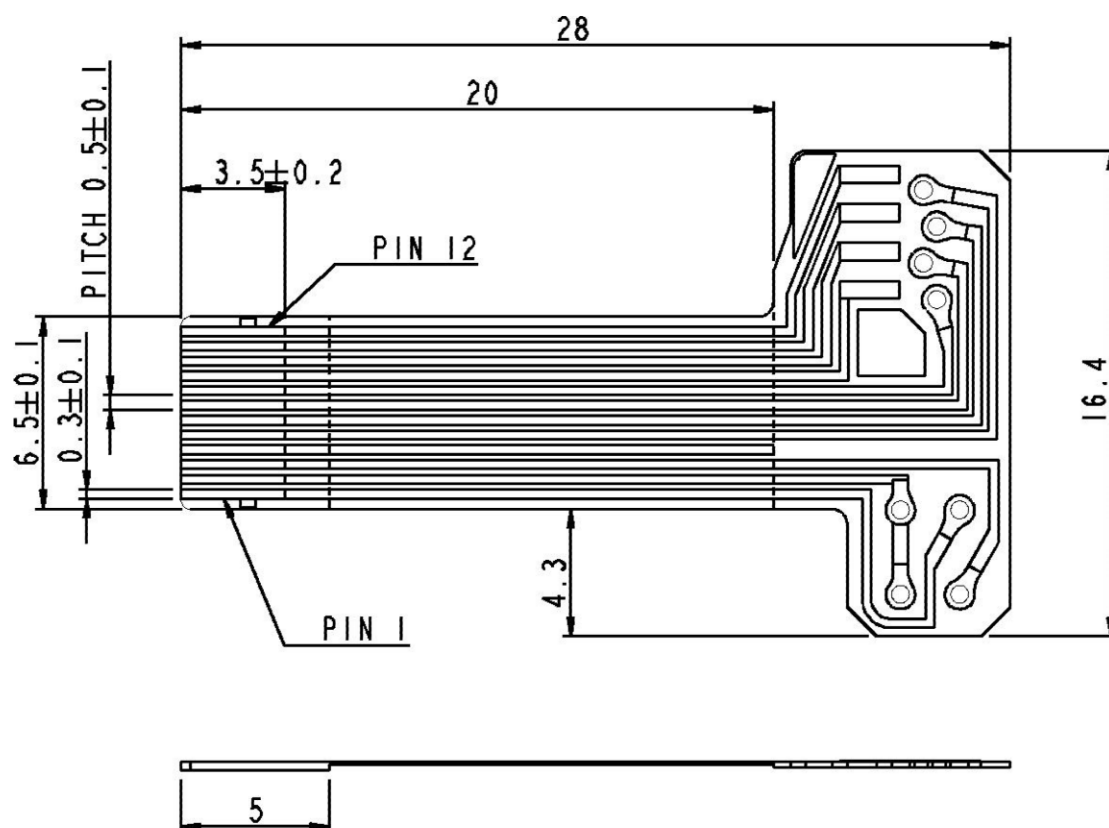
AUTO FOCUS STROKE



※ AF Total Stroke = 1.3mm

※ 1 step=0.0125mm

FPCB-12PIN LAYOUT



Pin NO.	PIN DEFINITION	Pin NO.	PIN DEFINITION
1	PI-Emitter	7	Step motor A bar
2	PI-Anode	8	Step motor B
3	PI-Cathode	9	SOL. APERTURE
4	PI-Empty	10	SOL. APERTURE
5	Step motor A	11	SOL. SHUTTER
6	Step motor B bar	12	SOL. SHUTTER