



■ IR Detecting Unit for Remote Control Lineup (Classified by Form)

Type	Package		Features	Operating voltage	Model No.		
	Form	Detection position*1 (from PCB)					
IR detecting unit for remote control	Lead L bend with shield case (holder)	16.0 mm*2	Compact size	3 to 5 V	GP1UE28XK0VF series		
			Compact size, Strengthened resistance to electromagnetic induction noise (Mesh type)	5 V	GP1UM28XK0VF series		
		12.0 mm*3	Compact size	3 to 5 V	GP1UE28RK0VF series		
				5 V	GP1UM28RK0VF series		
		6.8 mm*4	Compact size	3 to 5 V	GP1UE27XK0VF series		
				5 V	GP1UM27XK0VF series		
		19.0 mm	Compact size, Strengthened resistance to electromagnetic induction noise (Mesh type)	3 to 5 V	GP1UE27RK0VF series		
				5 V	GP1UM27RK0VF series		
		6.8 mm*4	Compact size	3 to 5 V	GP1UE26XK0VF series		
				5 V	GP1UM26XK0VF series		
	19.0 mm	Compact size, Strengthened resistance to electromagnetic induction noise (Mesh type)	3 to 5 V	GP1UE26RK0VF series			
			5 V	GP1UM26RK0VF series			
	Lead straight with shield case (holder)	19.0 mm	Compact size, Strengthened resistance to electromagnetic induction noise (Mesh type)	3 to 5 V	GP1UE29QK0VF series		
				5 V	GP1UM29QK0VF series		
		9.6 mm	Compact size	3 to 5 V	GP1UE28YK0VF series		
				5 V	GP1UM28YK0VF series		
		6.0 mm	Compact size, Strengthened resistance to electromagnetic induction noise (Mesh type)	3 to 5 V	GP1UE28QK0VF series		
				5 V	GP1UM28QK0VF series		
	Holderless	Lead straight 6.0 mm		3 to 5 V	GP1UX31QS series		
				5 V	GP1UX51QS series		
Lead L bend*5 5.3 mm			3 to 5 V	GP1UX31RK series			
		5 V	GP1UX51RK series				

*1 Lead straight: Distance from lens center to mounting board upper surface
 No mesh lead L bend: Distance from tip of lens to mounting board upper surface
 Mesh-type lead L bend: Distance from tip of mesh to mounting board upper surface
 *2 Mesh type (strengthened resistance to electromagnetic induction noise): 16.4 mm
 *3 Mesh type: 12.4 mm *4 Mesh type: 7.2 mm *5 Mesh type: 5.3 mm



IR Detecting Units for Remote Control

(Ta = 25°C)

Type	Series No.	Absolute maximum ratings		Operating voltage (V)	Electrical characteristics				Size (mm)	Terminal layout
		Vcc (V)	Topr (°C)		Icc (mA)*1 MAX.	VOH (V) MIN.	VOL (V) MAX.	fo (kHz) TYP.		
With shield case (holder), 5 V drive	GP1UM26XK0VF	0 to 6.0	-10 to +70	4.5 to 5.5	0.6 (0.65)	Vcc-0.5	0.45	*3	5.6 × 9.6 × 6.8	Center Vcc
	GP1UM27XK0VF	0 to 6.0	-10 to +70	4.5 to 5.5	0.6 (0.65)	Vcc-0.5	0.45	*3	5.6 × 9.6 × 12.0	
	GP1UM28XK0VF	0 to 6.0	-10 to +70	4.5 to 5.5	0.6 (0.65)	Vcc-0.5	0.45	*3	5.6 × 9.6 × 16.0	
	GP1UM28YK0VF	0 to 6.0	-10 to +70	4.5 to 5.5	0.6 (0.65)	Vcc-0.5	0.45	*3	5.6 × 8.6 × 12.5(9.6)*2	
With shield case (holder), 5 V drive, Strengthened resistance to electromagnetic induction noise	GP1UM26RK0VF	0 to 6.0	-10 to +70	4.5 to 5.5	0.6 (0.65)	Vcc-0.5	0.45	*3	5.6 × 9.6 × 7.2	
	GP1UM27RK0VF	0 to 6.0	-10 to +70	4.5 to 5.5	0.6 (0.65)	Vcc-0.5	0.45	*3	5.6 × 9.6 × 12.4	
	GP1UM28RK0VF	0 to 6.0	-10 to +70	4.5 to 5.5	0.6 (0.65)	Vcc-0.5	0.45	*3	5.6 × 9.6 × 16.4	
	GP1UM28QK0VF	0 to 6.0	-10 to +70	4.5 to 5.5	0.6 (0.65)	Vcc-0.5	0.45	*3	5.6 × 9.0 × 12.5(9.6)*2	
With shield case (holder), 3 to 5 V drive	GP1UM29QK0VF	0 to 6.0	-10 to +70	4.5 to 5.5	0.6 (0.65)	Vcc-0.5	0.45	*3	5.6 × 16.2 × 21.9(19)*2	
	GP1UE26XK0VF	0 to 6.0	-10 to +70	2.7 to 5.5	0.4	Vcc-0.5	0.45	*3	5.6 × 9.6 × 6.8	
	GP1UE27XK0VF	0 to 6.0	-10 to +70	2.7 to 5.5	0.4	Vcc-0.5	0.45	*3	5.6 × 9.6 × 12.0	
	GP1UE28XK0VF	0 to 6.0	-10 to +70	2.7 to 5.5	0.4	Vcc-0.5	0.45	*3	5.6 × 9.6 × 16.0	
With shield case (holder), 3 to 5 V drive, Strengthened resistance to electromagnetic induction noise	GP1UE28YK0VF	0 to 6.0	-10 to +70	2.7 to 5.5	0.4	Vcc-0.5	0.45	*3	5.6 × 8.6 × 12.5(9.6)*2	
	GP1UE26RK0VF	0 to 6.0	-10 to +70	2.7 to 5.5	0.4	Vcc-0.5	0.45	*3	5.6 × 9.6 × 7.2	
	GP1UE27RK0VF	0 to 6.0	-10 to +70	2.7 to 5.5	0.4	Vcc-0.5	0.45	*3	5.6 × 9.6 × 12.4	
	GP1UE28RK0VF	0 to 6.0	-10 to +70	2.7 to 5.5	0.4	Vcc-0.5	0.45	*3	5.6 × 9.6 × 16.4	
Holderless, 5 V drive, Strengthened resistance to electromagnetic induction noise	GP1UE28QK0VF	0 to 6.0	-10 to +70	2.7 to 5.5	0.4	Vcc-0.5	0.45	*3	5.6 × 9.0 × 12.5(9.6)*2	
	GP1UE29QK0VF	0 to 6.0	-10 to +70	2.7 to 5.5	0.4	Vcc-0.5	0.45	*3	5.6 × 16.2 × 21.9(19)*2	
	GP1UX51QS	0 to 6.0	-10 to +70	4.5 to 5.5	0.6	Vcc-0.5	0.45	*3	5.5 × 5.3 × 7.5	Center GND
	GP1UX51RK	0 to 6.0	-10 to +70	4.5 to 5.5	0.6	Vcc-0.5	0.45	*3	5.5 × 5.3 × 7.5	
Holderless, 3 to 5 V drive, Strengthened resistance to electromagnetic induction noise	GP1UX31QS	0 to 6.0	-10 to +70	4.5 to 5.5	0.4	Vcc-0.5	0.45	*3	5.5 × 5.3 × 7.5	
	GP1UX31RK	0 to 6.0	-10 to +70	4.5 to 5.5	0.4	Vcc-0.5	0.45	*3	5.5 × 5.3 × 7.5	

Note: A voltage regulator circuit is built-in but may be affected by the usage environment. Install with an externally mounted C and R as a power supply filter.

*1 When no signal is input (during input light).

*2 Figures in parentheses indicate the distance to the light detection center.

*3 fo = 32.75/36/36.7/38/40 kHz

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