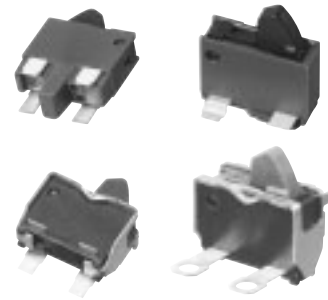


2N Detector Switches

Type: **ESE22**



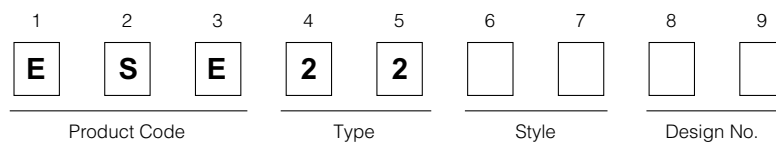
■ Features

- Can be operated with different actuation angles (horizontally and vertically)
- Reflow soldering
- Light operating force

■ Recommended Applications

- Detection of media in portable electronic equipment

■ Explanation of Part Numbers



■ Specifications

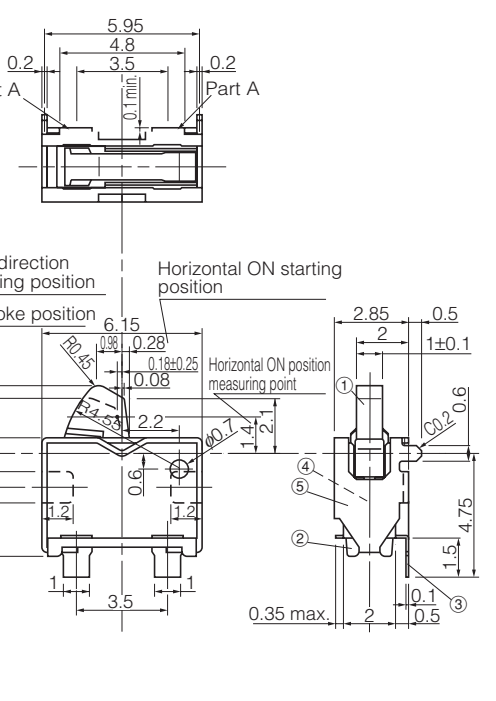
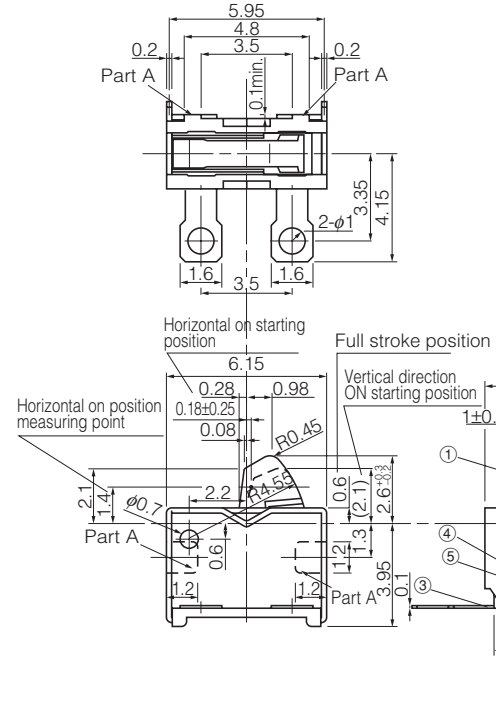
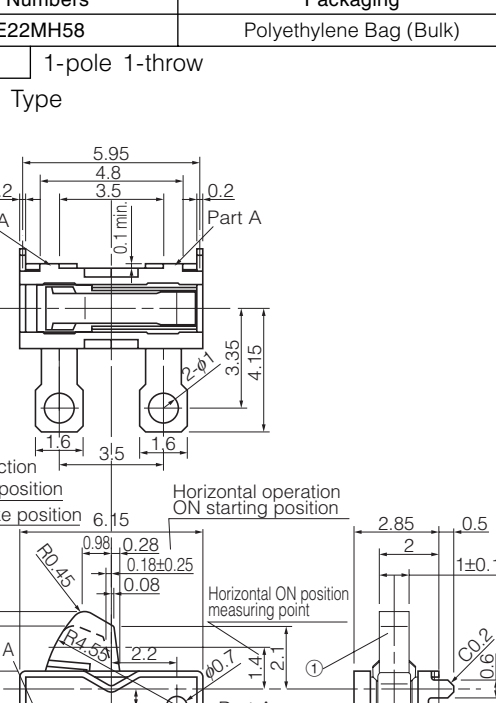
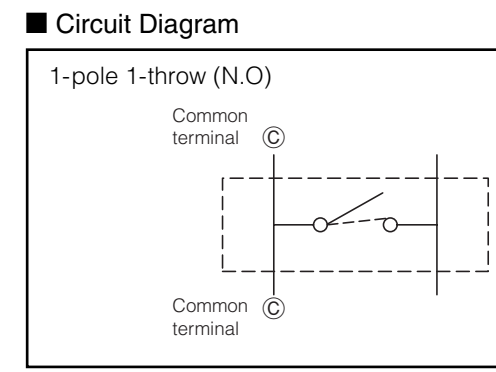
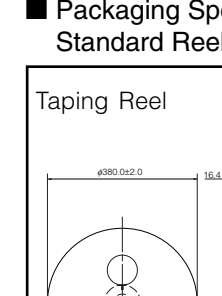
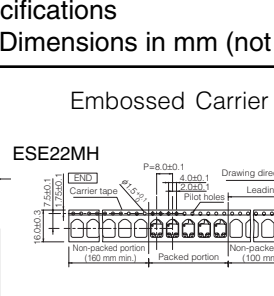
Rating	50 μ A 3 Vdc to 10 mA 5 Vdc (Resistive load)		
Contact Resistance	500 m Ω max. (Initial)		
Insulation Resistance	100 M Ω min. (100 Vdc)		
Dielectric Withstanding Voltage	100 Vac for 1 minute		
Operating Force	300 mN max.		
Mounting Height	· Type MV 4.1 mm · Type MH 2.1 mm · Type MH with Frame 2.85 mm		
Poles and Throws	1-pole 1-throw		
Full Travel (Pushing distance)	· Type MV 4.25 mm(2.05 mm) · Type MH 1.2 mm(2.0 mm) · Type MH with Frame 0.6 mm(2.0 mm)		
Operating Life	50000 cycles min.		
Temperature Range	-10 °C to +70 °C		
Heat Resistance	+80 °C for 96 hours		
Low Temperature Resistance	-25 °C for 96 hours		
Humidity Resistance	+40 °C 90 % to 95 % RH for 96 hours		
Minimum Quantity/Packing Unit	500 pcs. Polyethylene Bag (Bulk)		
	· Type MV	1000 pcs.	Embossed Taping (Reel Pack)
	· Type MH with Frame	3000 pcs.	Embossed Taping (Reel Pack)
	· Type MH	4000 pcs.	Embossed Taping (Reel Pack)
Quantity/Carton	10000 pcs. Polyethylene Bag (Bulk)		
	· Type MV	6000 pcs.	Embossed Taping (Reel Pack)
	· Type MH with Frame	18000 pcs.	Embossed Taping (Reel Pack)
	· Type MH	24000 pcs.	Embossed Taping (Reel Pack)

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

00 Oct. 2012

Type	Part Numbers		H : boss	Packaging							
	ESE22MH21		0.5	Polyethylene Bag (Bulk)							
	ESE22MH27		1.0	Polyethylene Bag (Bulk)							
	ESE22MH22		0.5	Embossed Taping (Reel Pack)							
	ESE22MH27T		1.0	Embossed Taping (Reel Pack)							
No. 1	1-pole 1-throw										
(The hole for flux prevention) $\phi 1.1$ hole 2.2 6.0 3.5 1.7 5.3 2.5± 0.1 H 1.9 ON starting position Boss center ON starting position standard Vertical direction ON starting position Full stroke position Horizontal ON position measuring position PWB mounting hole for reference 2.1 max. 1.45 1.0 0.26 2.2 5.7 0.88 RA4.5 R0.7 2$\phi 1.0 \pm 0.05$ 2.8 3.2 3.95 5.0 6.5 2.7 2.5 0.05 1.2 2.3 1.0 1.0 1.0 1.4 3.5											
Type	Part Numbers		H : boss	Packaging							
	ESE22MH23		0.5	Polyethylene Bag (Bulk)							
	ESE22MH28		1.0	Polyethylene Bag (Bulk)							
	ESE22MH24		0.5	Embossed Taping (Reel Pack)							
	ESE22MH28T		1.0	Embossed Taping (Reel Pack)							
No. 2	1-pole 1-throw										
2$\phi 1.1 + 0.05/-0$ hole 2.2 6.0 3.5 1.7 5.3 2.5± 0.1 H 1.9 Boss center ON starting position standard ON starting position PWB mounting hole for reference 1.45 1.0 Vertical direction ON starting position Full stroke position Horizontal ON position measuring position 0.88 0.26 2.2 5.7 RA4.5 R0.7 2$\phi 1.0 \pm 0.05$ 3.2 2.8 3.95 5.0 6.5 1.5 2.7 1.0 1.0 1.0 1.4 3.5 2.1 max.											
Part Numbers	Packaging										
	ESE22MV21	Polyethylene Bag (Bulk)									
	ESE22MV21T	Embossed Taping (Reel Pack)									
No. 3	1-pole 1-throw										
Operating direction 4.0 1.4 1.5 2.4 1.5 1.4 3.5 PWB mounting hole for reference (View from A direction, SCL=1/2) Pushable height Horizontal ON position measuring position 1.0± 0.1 0.13 max. 0.45 5.85 5.1 4.25 (3.1) 4.0 1.95 4.1 5.9± 0.3 6.3± 0.3 1.0 1.0 1.0 1.2 0.1 R0.3 R0.7 R4.5 ON starting position 1.5± 0.3 0.2 0.88 5.7± 0.1 1.0 1.9± 0.1 3.8 A											
Part Numbers	Packaging										
	ESE22MH51	Polyethylene Bag (Bulk)									
	ESE22MH52	Embossed Taping (Reel Pack)									
No. 4	1-pole 1-throw										
With Frame Type											
Center of on start position in case of horizontal operation 5.95 1.6 3.5 1.6 2$\phi 0.7 + 0.05/-0$ (Hole) 1.6 1.6 2.0 1.4 3.5 PWB mounting hole for reference (Tolerance:± 0.05) (Scale: 1/2) Horizontal ON starting position Full stroke position Horizontal ON position measuring point Vertical direction ON starting position Part A 0.2 5.95 4.8 3.5 0.1 mm 0.2 6.15 0.28 0.08 0.18± 0.25 0.08 R0.45 R4.5 R0.7 2.2 2.1 1.4 0.6 0.6 1.2 1.3 2.6 3.95 1 3.5 1 2.85 2 2 0.5 C0.2 0.6 1.5 4.75 0.1 0.5 0.35 max.											

00 Sep. 2010

Part Numbers	Packaging
ESE22MH53	Polyethylene Bag (Bulk)
ESE22MH54	Embossed Taping (Reel Pack)
No. 5	1-pole 1-throw
With Frame Type	
	
Part Numbers	Packaging
ESE22MH57	Polyethylene Bag (Bulk)
No. 6	1-pole 1-throw
Solder lug Type	
	
Part Numbers	Packaging
ESE22MH58	Polyethylene Bag (Bulk)
No. 7	1-pole 1-throw
Solder lug Type	
	
Circuit Diagram 1-pole 1-throw (N.O.) 	
Packaging Specifications Standard Reel Dimensions in mm (not to scale) Taping Reel  Embossed Carrier Taping ESE22MH  ESE22MV  <td data-kind="ghost"></td>	

00 Oct. 2012

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panasonic:

[ESE-22MV1](#) [ESE-22MV21](#) [ESE-22MH22](#) [ESE-22MH24](#) [ESE-22MH27](#) [ESE-22MH27T](#) [ESE-22MH28](#) [ESE-22MH28T](#) [ESE-22MH52](#) [ESE-22MH54](#) [ESE-22MV21T](#) [ESE-22MH21](#) [ESE-22MH58](#) [ESE-22MH53](#) [ESE-22MH57](#) [ESE-22MH51](#)