

*Using breakthrough technology,
we aim for products that will create new markets.*

New Product News

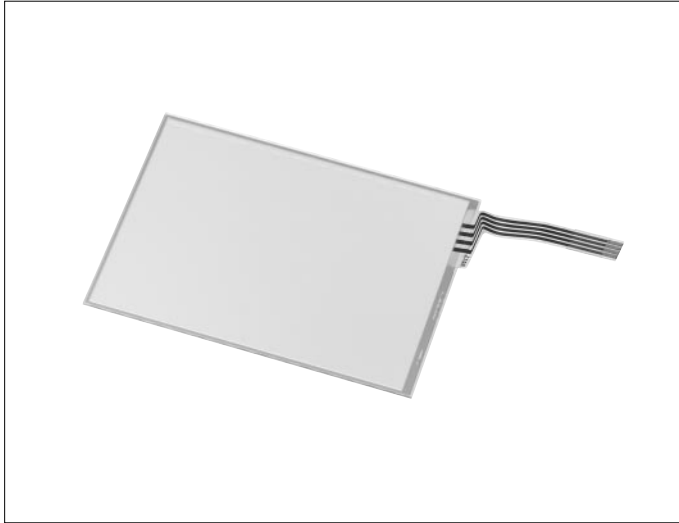
Wide range of products

Transparent Touch Panels

Narrow-frame Type Transparent Touch Panels

Industry/Field: Mobile communications, Information electronics

Wider operation area achieved by the industry's number one narrow frame



Development Target:

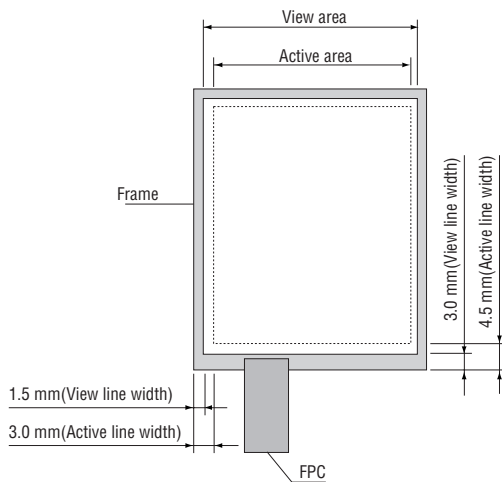
Development of a transparent touch panel with a narrow frame that widens the panel display and operation areas to meet the needs of increasingly wider screens in mobile equipment

Features:

- 1 Narrow frame**
Width of the three sides of the frame: 1.5 mm (Our conventional model: 2.0 mm)
Width of the FPC-connecting side: 3.0 mm (Our conventional model: 4.2 mm)
- 2 Widened operation area**
(Example: 2-inch outer dimension type)
Active area*1: 8.9 cm² (7% larger than our conventional model)
Viewing area*2: 10.8 cm² (6% larger than our conventional model)
*1: Area in which touch switches can be operated
*2: Area in which information can be displayed on the screen

Number of industrial property rights: 1(Pending)

Construction:



Characteristics/specifications:

Item	Specifications
Touch Panel Thickness	0.95 mm, 1.35 mm
Size	2 to 4 inches
Total Light Transparency	80 to 88 %
Operating Force	1 N max.
Bouncing	15 ms max.
Linearity	±1.5 %
Storage Temperature	-10°C to +60°C
Operating Temperature	0°C to 50°C, 20% RH to 80 % RH (no dew condensation)
Operating Life	1,000,000 cycles min.(keying)

Applications/usage examples:

- Input devices for PDAs and mobile phones

Explanation of part numbers:

Series EMU601