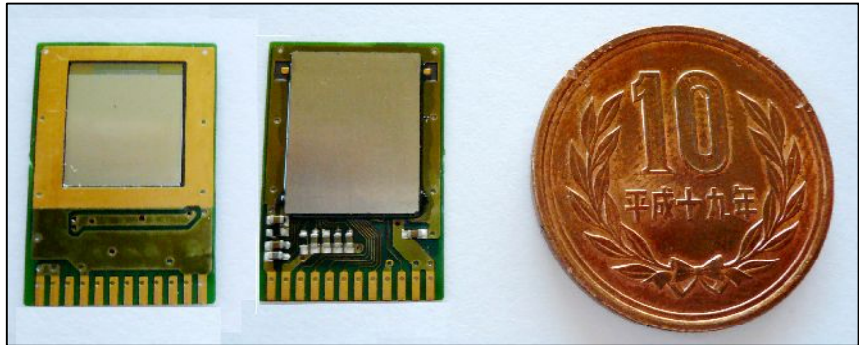
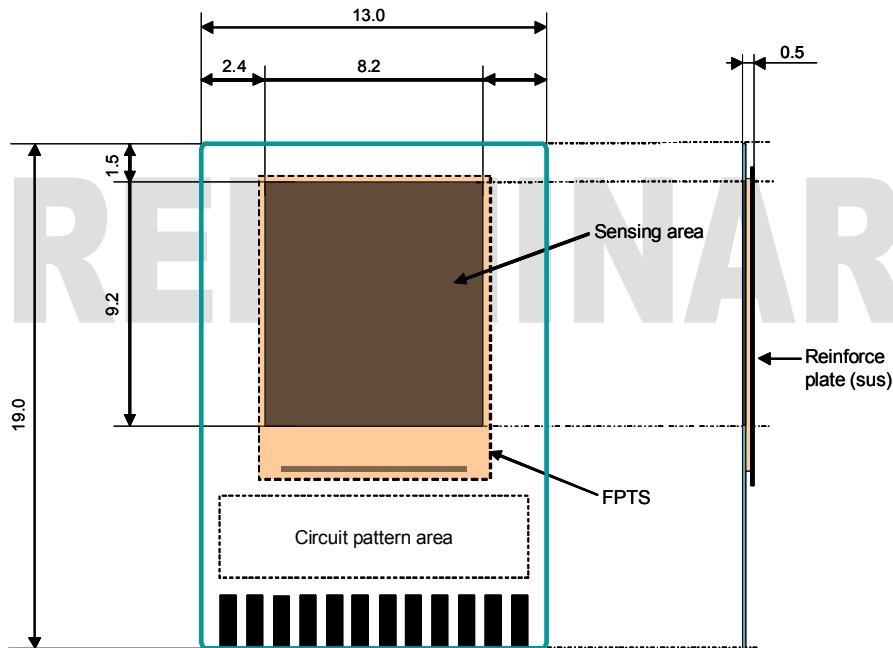


## FPTS22 finger print image sensor / COF(TS-COFS) only for SPI

The FPTS22 fingerprint image sensor is based on capacitive-contact technology with hardened surface and enhanced ESD resistivity. The build-in analog and digital circuitry minimizes the number of external component, and provides easy-to-use, standard SPI to microprocessors.



The operation of FPTS22 is controlled through registers, following a simple protocol. The captured image quality can be adjusted by setting gain, offset or reference voltage parameters. The internal operation and interface speed can also be configured to the need.



### Features

- 2D sensor array of 160x160 pixels
- 508 DPI spatial resolution
- 8mm x 8mm active sensing area
- Build-in 8-bit ADC for digitizing image
- Build-in programmable voltage reference
- High speed SPI interface
- Less than 0.1 second read out time
- 160-byte on-chip data FIFO
- RoHS compliant

### Specification

Parameter	Value	Unit
Scanning speed	< 0.1 sec	
Dimensions	13x19x0.5	mm
Weight	0.8±0.1	g
System clock	4~32	MHz
SPI clock	20(KHz)~32	MHz
Operating temperature range	-20~70	°C
Extended humidity range	20 ~ 80	%
Operating voltage range	2.7~3.3	V
Total supply current	10	mA
interface	SPI	