

CLAIMS**What is claimed is:**

1. A multi-color light emitting pixel unit, comprising:
a substrate; and
5 a light emitting transistor formed on the substrate, the light emitting transistor including:
a bottom conductive layer formed on the substrate and a top conductive layer formed
over the bottom conductive layer;
an upper light emitting layer formed between the top conductive layer and the bottom
conductive layer;
10 at least one lower light emitting layer formed between the upper light emitting layer and
the bottom conductive layer; and
an electrical connector electrically connecting the at least one lower light emitting layer
and the bottom conductive layer.
2. The multi-color light emitting pixel unit of claim 1, further comprising:
15 a metal layer formed between the upper light emitting layer and the at least one lower light
emitting layer.
3. The multi-color light emitting pixel unit of claim 2, wherein the electrical connector is attached
to and contacts side surfaces of the metal layer, the at least one lower light emitting layer, and the bottom
conductive layer.
- 20 4. The multi-color light emitting pixel unit of claim 2, wherein the electrical connector is attached
to and contacts side surfaces of the metal layer and the bottom conductive layer.
5. The multi-color light emitting pixel unit of claim 1, wherein the electrical connector is attached
to and contacts a side surface of the light emitting transistor.
6. The multi-color light emitting pixel unit of claim 1, wherein the at least one lower light
25 emitting layer includes:
a first lower light emitting layer formed between the upper light emitting layer and the bottom
conductive layer; and
a second lower light emitting layer formed between the first lower light emitting layer and the
bottom conductive layer.
- 30 7. The multi-color light emitting pixel unit of claim 6, wherein the electrical connector
electrically connects the first lower light emitting layer and the second lower light emitting layer.
8. The multi-color light emitting pixel unit of claim 6, further comprising:
a first metal layer formed between the upper light emitting layer and the first lower light emitting
layer; and
35 a second metal layer formed between the first lower light emitting layer and the second lower
light emitting layer.
9. The multi-color light emitting pixel unit of claim 8, wherein the electrical connector is attached
to and contacts side surfaces of the first metal layer, the second metal layer, the first lower light emitting

layer, the second lower light emitting layer, and the bottom conductive layer.

10. The multi-color light emitting pixel unit of claim 8, wherein the electrical connector is attached to and contacts side surfaces of the first metal layer, the second metal layer, and the bottom conductive layer.

5 11. The multi-color light emitting pixel unit of claim 1, wherein the light emitting transistor is a blue light emitting transistor, and the upper light emitting layer is a blue light emitting layer.

12. The multi-color light emitting pixel unit of claim 11, wherein the at least one lower light emitting layer includes a red light emitting layer and a green light emitting layer.

10 13. The multi-color light emitting pixel unit of claim 12, wherein the electrical connector electrically connecting both of the red light emitting layer and the green light emitting layer to the bottom conductive layer.

14. The multi-color light emitting pixel unit of claim 1, wherein the light emitting transistor is a green light emitting transistor, and the upper light emitting layer is a green light emitting layer.

15 15. The multi-color light emitting pixel unit of claim 14, wherein the at least one lower light emitting layer includes a red light emitting layer.

16. The multi-color light emitting pixel unit of claim 14, wherein the electrical connector electrically connects the red light emitting layer to the bottom conductive layer.

17. A micro display panel comprising the multi-color light emitting pixel unit of claim 1.