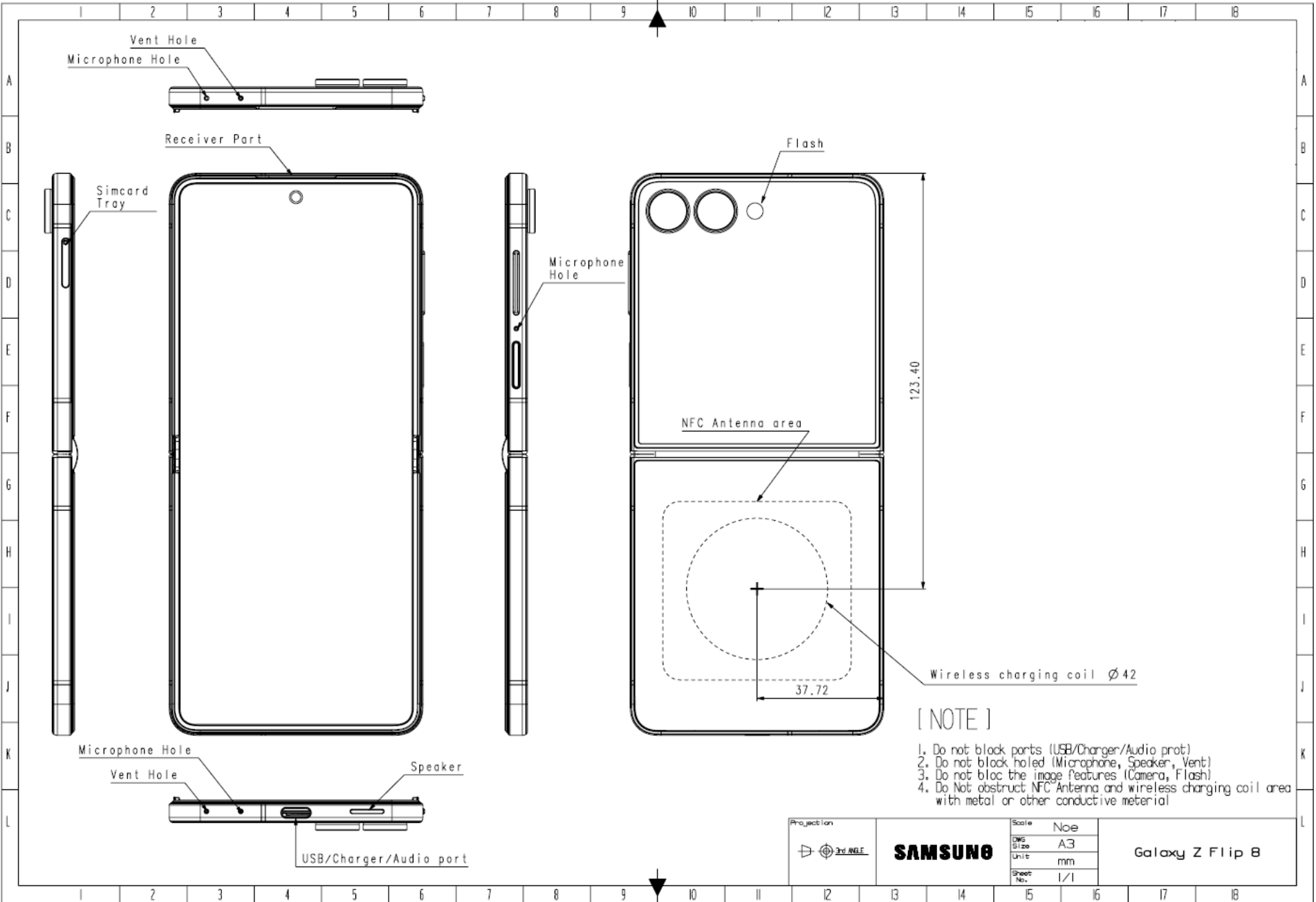




## □ MPP Cover Guide #1

### ① Magnet Position ( $d_{\text{shift}}$ : 43.465mm)

- Magnet center is at a distance of 43.465mm from the bottom end of the device (y axis). \*offset on the X axis = 0

### ② Cover Thickness ( $d_{z,1}$ : 1.25~1.89T) ( $d_{z,1}=d_{z,2}+d_m+d_{z,3}+d_{z,\text{air}}$ )

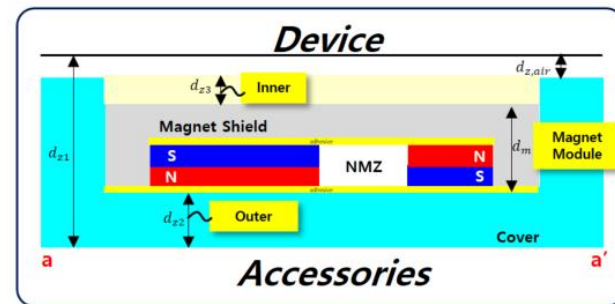
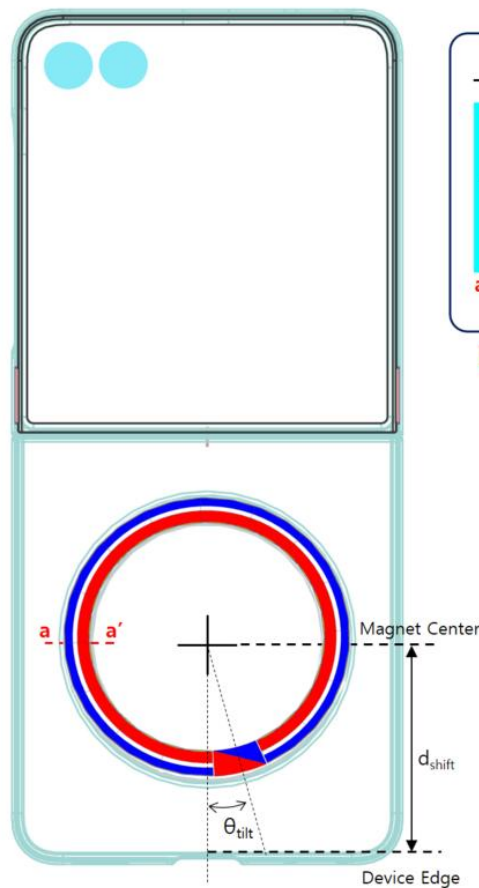
- Flip8 devices are designed for Qi2 standard within the 1.25~1.89T.
- $d_{z,1}$  includes the air gap between the device and cover.
- The sum of  $d_{z,\text{air}}$  (=0.05T) and  $d_{z,3}$  shall be 0.3T, and adjustable within this range.

### ③ Thickness of Magnet ⇄ Cover Surface ( $d_{z,2}$ : 0.35~0.75T)

- Design required **0.39T** to maintain ideal magnetic coupling with accessories.

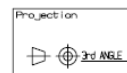
### ④ Tilt Angle of 'A' Magnet ( $\theta_{\text{tilt}}$ )

- 'A' magnet is located between SPCC slit; see 'Magnet Characteristics' page for details.
- $\theta_{\text{tilt}}$  may vary depending on the hall IC position of each model.



## □ Key Dimension

|                                                 | Spec                                            |
|-------------------------------------------------|-------------------------------------------------|
| $\theta_{\text{tilt}}$<br>(Tol. $\pm 1^\circ$ ) | 13.87°                                          |
| $d_{\text{shift}}$                              | 43.465 mm                                       |
| $d_{z,1}$                                       | 1.25 ~ 1.89mm                                   |
| $d_{z,2}$                                       | 0.35 ~ 0.75 mm<br>(Max 0.75mm, minus tol. only) |
| $d_{z,3}+d_{z,\text{air}}$                      | 0.3 mm                                          |



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Unit mm  
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## □ MPP Cover Guide #2

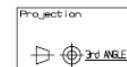
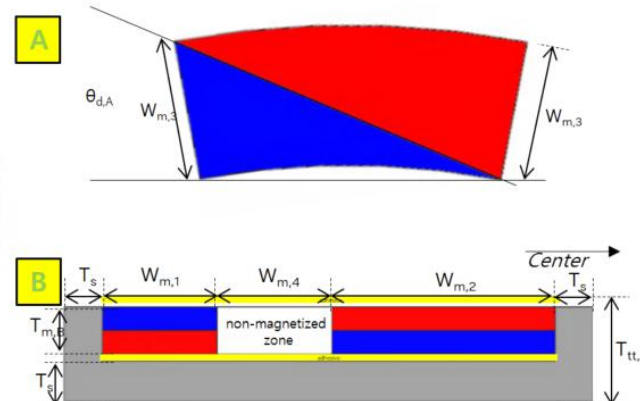
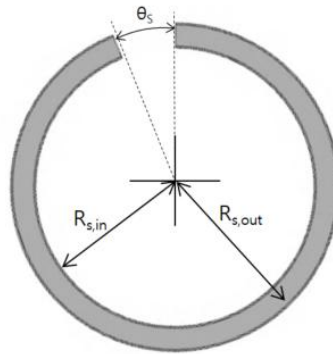
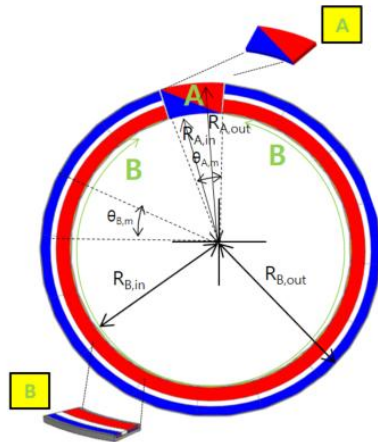
- ① 'A' Magnet is designed to prevent bridging in SPCC slit : Epoxy Coating &  $\theta_{A,m}$  (21.5°)
- ② Magnetized zone : Magnetized zone of 'B' Magnet is Asymmetric
- ③ 'A' and 'B' Magnet have different thickness :  $T_{m,A}$  (0.7T) ,  $T_{m,B}$  (0.3T)
- ④ Magnet Shield Thickness and Material :  $T_s$  : 0.2T / SPCC (EGI)
- ⑤ Total Thickness :  $T_{tt,A}$  /  $T_{tt,B}$  includes adhesive applied to the cover

## □ Key Dimension (Magnet Shield)

| Material                                          | SPCC (EGI) |
|---------------------------------------------------|------------|
| $\theta_s$                                        | 22.5°      |
| $R_{s,in}$                                        | 22.8 mm    |
| $R_{s,out}$                                       | 27.95 mm   |
| Magnet Shield Width<br>( $R_{s,out} - R_{s,in}$ ) | 5.15mm     |
| $T_s$                                             | 0.2 mm     |

## □ Key Dimension (Magnet)

|                                                                    | Spec                                |
|--------------------------------------------------------------------|-------------------------------------|
| Magnet Grade<br>(Surface Finish)                                   | A : N55SH (Epoxy)<br>B : N55SH (Ni) |
| $\theta_{A,m} / \theta_{B,m}$                                      | A : 21.5°<br>B : 22.5°              |
| $R_{A,in} / R_{A,out}$                                             | 22.8 / 27.95 mm                     |
| $R_{B,in} / R_{B,out}$                                             | 23 / 27.75 mm                       |
| $W_{m,1}$                                                          | 1.6 mm                              |
| $W_{m,2}$                                                          | 2.25 mm                             |
| $W_{m,3}$                                                          | 5.15 mm                             |
| $W_{m,4}$                                                          | 0.9 mm                              |
| $\theta_{d,A}$                                                     | 28.078 °                            |
| Magnet Width<br>A : $W_{m,3}$<br>B : $W_{m,1} + W_{m,2} + W_{m,4}$ | A: 5.15 mm<br>B : 4.75 mm           |
| $T_{adh}$ (magnet ↔ cover)                                         | 0.05 mm                             |
| $T_{m,A}$                                                          | 0.7 mm                              |
| $T_{m,B}$                                                          | 0.3 mm                              |
| $T_{adh}$ (magnet ↔ SPCC)                                          | 0.05 mm                             |
| $T_{tt,A}$                                                         | 0.75 mm                             |
| $T_{tt,B}$                                                         | 0.6 mm                              |



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