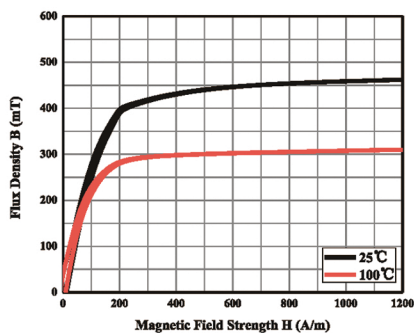
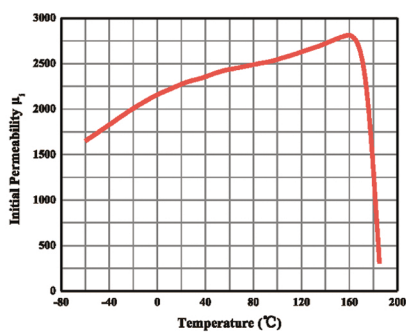
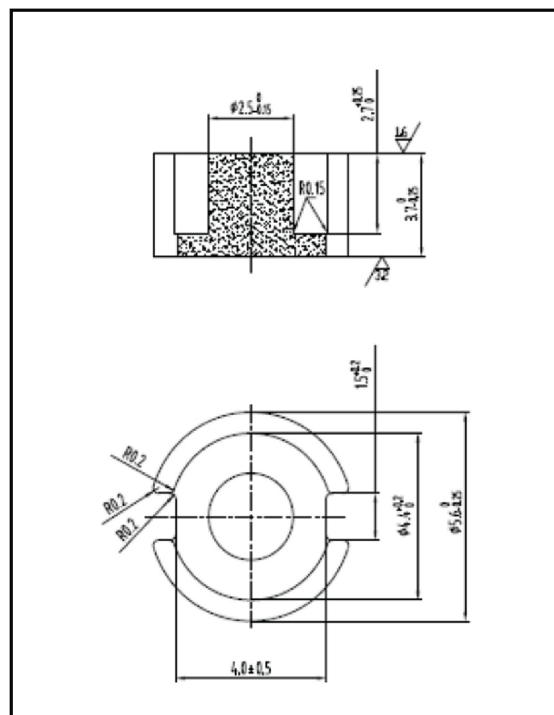
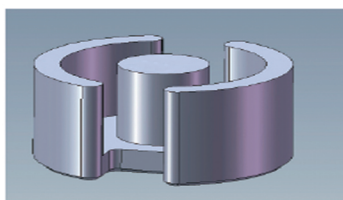


## CORE SETS

## Effective core parameters

| SYMBOL         | PARAMETER             | VALUE          | UNIT             |
|----------------|-----------------------|----------------|------------------|
| $\Sigma (1/A)$ | core factor ( $C_l$ ) | 3.54           | $\text{mm}^{-1}$ |
| $V_e$          | effective volume      | 46.44          | $\text{mm}^3$    |
| $l_e$          | effective length      | 12.90          | mm               |
| $A_e$          | effective area        | 3.60           | $\text{mm}^2$    |
| $A_{\min}$     | minimum area          | 2.40           | $\text{mm}^2$    |
| $W_t$          | mass of core set      | $\approx 0.32$ | g                |



## DMR70 Material Characteristics

| CHARACTERISTICS                                            | CONDITIONS      |        | VALUE    |
|------------------------------------------------------------|-----------------|--------|----------|
| Initial Permeability                                       | 10kHz, B<0.25mT | 25℃    | 2300±25% |
| Saturation MagneticFluxDensity Bs(mT)                      | 50Hz, 1194A/m   | 25℃    | 430      |
| Residual MagneticFlux Density Br(mT)                       |                 | 100℃   | 310      |
|                                                            |                 | 25℃    | 60       |
|                                                            |                 | 100℃   | 50       |
|                                                            |                 | 25℃    | 15       |
| Coercive Force Hc (A/m)                                    |                 | 100℃   | 11       |
| Relative loss factor tanδ/μi                               | 10kHz, 0.25mT   | 25℃    | <4       |
|                                                            | 100kHz, 0.25mT  | 25℃    | <6       |
| Relative Temperature Coefficient αμ (×10 <sup>-6</sup> /℃) | 10kHz, B<0.25mT | 5~25℃  | 0.3~1.3  |
|                                                            |                 | 25~55℃ | 0.3~1.3  |
| Hysteresis Material Constant ηB(×10 <sup>-6</sup> /mT)     |                 | 25℃    | <0.4     |
| Curie Temperature Tc (℃)                                   | 10kHz, B<0.25mT |        | >170     |
| Density d (g/cm <sup>3</sup> )                             |                 | 25℃    | 4.8      |