## Feature

- Excellent flame retardant coating
- Stable performance in diverse environments
- Hish purity ceramic core
- Meet EIA-RC2655A requirements

- High safety standard


## Derating Curve



## Heat Rise Chart




## Specifications

| Part No. | Type | Power <br> Rating At $70^{\circ} \mathrm{C}$ | Dimension (mm) |  |  |  |  | Max. <br> Working <br> Voltage | Max. <br> Overload <br> Voltage | Dielectric Withstanding Voltage | Resistance Range |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | D Max. | L Max. | d | $\begin{aligned} & +0.02 \\ & -0.05 \end{aligned}$ | $\mathrm{H} \pm 3$ |  |  |  |  |
| Normal Size |  |  |  |  |  |  |  |  |  |  |  |
| MOROW/4 | MOR-25 | 1/4W | 2.5 | 7.5 |  | 0.6 | 28 | 250 V | 400 V | 250 V | $0.1 \Omega \sim 100 \mathrm{~K} \Omega$ |
| MOROW/2 | MOR-50 | 1/2W | 4 | 10 |  | 0.6 | 28 | 250 V | 400 V | 250 V | $0.1 \Omega \sim 120 \mathrm{~K} \Omega$ |
| MOROIW | MOR-100 | IW | 5 | 12 |  | 0.7 | 28 | 350 V | 600 V | 350 V | $0.1 \Omega \sim 150 \mathrm{~K} \Omega$ |
| MOR02W | MOR-200 | 2W | 5.5 | 16 |  | 0.8 | 28 | 350 V | 600 V | 350 V | $0.1 \Omega \sim 150 \mathrm{~K} \Omega$ |
| MOR03W | MOR-300 | 3W | 6.5 | 17.5 |  | 0.8 | 28 | 500 V | 800 V | 500 V | $0.1 \Omega \sim 150 \mathrm{~K} \Omega$ |
| MORO5W | MOR-500 | 5W | 8.5 | 26 |  | 0.8 | 38 | 750 V | 1000V | 750 V | $0.1 \Omega \sim 180 \mathrm{~K} \Omega$ |
| MOR07W | MOR-700 | 7W | 8.5 | 32 |  | 0.8 | 38 | 750 V | 1000 V | 750 V | $20 \Omega \sim 150 \mathrm{~K} \Omega$ |
| MOR08W | MOR-800 | 8W | 8.5 | 41 |  | 0.8 | 38 | 750 V | 1000 V | 750 V | $30 \Omega \sim 200 \mathrm{~K} \Omega$ |
| MOR09W | MOR-900 | 9W | 8.5 | 54 |  | 0.8 | 38 | 750 V | 1000 V | 750 V | $50 \Omega \sim 200 \mathrm{~K} \Omega$ |
| Small Size \& Extra Small Size |  |  |  |  |  |  |  |  |  |  |  |
| MOROS2 | MOR-50-S | 1/2W | 3 | 7.5 |  | 0.6 | 28 | 250 V | 400 V | 250 V | $0.1 \Omega \sim 100 \mathrm{~K} \Omega$ |
| MOR01S | MOR-IOO-S | 1W | 4.5 | 10 |  | 0.7 | 28 | 350 V | 600 V | 350 V | $0.1 \Omega \sim 120 \mathrm{~K} \Omega$ |
| MORO2S | MOR-200-S | 2W | 5 | 12 |  | 0.7 | 28 | 350 V | 600 V | 350 V | $0.1 \Omega \sim 150 \mathrm{~K} \Omega$ |
| MORO3S | MOR-300-S | 3W | 5.5 | 16 |  | 0.8 | 28 | 350 V | 600 V | 350 V | $0.1 \Omega \sim 150 \mathrm{~K} \Omega$ |
| MOR05U | MOR-500-SS | 5W | 6.5 | 17.5 |  | 0.8 | 28 | 500 V | 800 V | 500 V | $0.1 \Omega \sim 150 \mathrm{~K} \Omega$ |
| MOR05S | MOR-500-S | 5W | 8 | 25 |  | 0.8 | 38 | 500 V | 800 V | 500 V | $0.1 \Omega \sim 180 \mathrm{~K} \Omega$ |

- Standard E-24 series values in $\pm 5 \%$ tolerance
- Standard Gray base color for Normal Size product ; Blue color for Small Size product
- Standard Non - Flammable coatins
- Non - Inductive type available on a case to case basis


## Performance Specifications

| Temperature coefficient | $\pm 350 P P M /{ }^{\circ} \mathrm{C}$ |
| ---: | :--- |
| Short-time overload | Normal Size, $\Delta R / R \leq \pm(1 \%+0.05 \Omega)$, with no evidence of mechanical damage |
|  | Small Size, $\Delta R / R \leq \pm(2 \%+0.05 \Omega)$, with no evidence of mechanical damase |
| Dielectric withstanding voltage | No evidence of flashover, mechanical damage, arcing or insulation breakdown. |
| Pulse overload | Normal Size, $\Delta R / R \leq \pm(2 \%+0.05 \Omega)$, with no evidence of mechanical damage |
|  | Small Size, $\Delta R / R \leq \pm(5 \%+0.05 \Omega)$, with no evidence of mechanical damage. |
| Terminal strength | No evidence of mechanical damage. |
| Resistance to Soldering heat | $\Delta R / R \leq \pm(1 \%+0.05 \Omega)$, with no evidence of mechanical damage. |
| Solderability | Min. $95 \%$ coverase. |
| Resistance to solvent | No deterioration of protective coating and markings. |
| Temperature cycling | $\Delta R / R \leq \pm(2 \%+0.05 \Omega)$, with no evidence of mechanical damage. |
| Humidity (Steady state) | $\Delta R / R \leq \pm(2 \%+0.05 \Omega)$, with no evidence of mechanical damage. |
| Load life in humidity | $\Delta R / R: \leq \pm 5 \%$ for $<100 \mathrm{~K} \Omega ; \pm 10 \%$ for $\geq 100 \mathrm{~K} \Omega$. |
| Load life | $\Delta R / R: \leq \pm 5 \%$ for $<100 \mathrm{~K} \Omega ; \pm 10 \%$ for $\geq 100 \mathrm{~K} \Omega$. |
| Flame retardant | No evidence of flaming or arcing. |

Ordering Procedure (Example: MOR 1W-S 5\% 8.2 T/B-1000)


| 4 $4^{\text {th }}$ Band |  |
| ---: | :--- |
| Red | $= \pm 2 \%$ |
| Gold | $= \pm 5 \%$ |
| Silver | $= \pm 10 \%$ |

1234


Five Band Color Code (Available for MFR 1\% \& FRN Products)


12345


