



DATA SHEET

Carbon Film Fixed Resistor N-Size 6,5x17,5mm 2Watt

Serie: X33005

**Carbon Film Fixed Resistor N-
Size 6,5x17,5mm 2Watt**

Serie No.: **X33005**

| | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 23.10.2011 |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | | 1 from 6 |

Customer:

EDCON-COMPONENTS



Specifications

| | |
|---------------------------------|---|
| Temperature coefficient | $\leq 10\Omega \pm 350\text{PPM}/^\circ\text{C}$ $11\Omega \sim 99\text{K}\Omega \quad 0\sim 450\text{PPM}/^\circ\text{C}$ $100\text{K}\Omega \sim 1,0\text{M}\Omega \quad 0\sim 700\text{PPM}/^\circ\text{C}$ $1,0\text{M}\Omega \sim 10\text{M}\Omega \quad 0\sim 1500\text{PPM}/^\circ\text{C}$ |
| Short time overload | $\pm (1,0\% + 0,05\Omega)$ Max, with no evidence of mechanical damage. |
| Insulation Resistance | Min. 10.000 Mega Ohm |
| Dielectric withstanding voltage | No evidence of flashover , mechanical damage, arcing or insulation breackdown. |
| Terminal strength | No evidence of mechanical damage. |
| Resistance to soldering heat | $\pm (1,0\% + 0,05\Omega)$ Max, with no evidence of mechanical damage. |
| Solderability | Min. 95% coverage. |
| Resistance to solvent | No deterioration of protective coating and markings. |
| Temperature cycling | . $\pm (1,0\% + 0,05\Omega)$ Max, with no evidence of mechanical damage. |
| Load life in Humidity | Normal Type $<100\text{K}\Omega: \pm(3,0\% + 0,05\Omega)\text{max.}$ $\geq 100\text{K}\Omega: \pm(5,0\% + 0,05\Omega)\text{max.}$ |
| | Non-Flame Type $<100\text{K}\Omega: \pm(5,0\% + 0,05\Omega)\text{max.}$ $\geq 100\text{K}\Omega: \pm(10,0\% + 0,05\Omega)\text{max.}$ |
| Load life | Normal Type $<56\text{K}\Omega: \pm(2,0\% + 0,05\Omega)\text{max.}$ $\geq 56\text{K}\Omega: \pm(3,0\% + 0,05\Omega)\text{max.}$ |
| | Non-Flame Type $<100\text{K}\Omega: \pm(5,0\% + 0,05\Omega)\text{max.}$ $\geq 100\text{K}\Omega: \pm(10,0\% + 0,05\Omega)\text{max.}$ |

Features

- Automatically insertable
- High Quality performance
- Non-Flame type available
- Too low or to high values can be supplied on case to case basis

Note

- Standard big base color
- Standard grayish-green base color (Non-flammable coating)

**Carbon Film Fixed Resistor N-
Size 6,5x17,5mm 2Watt**

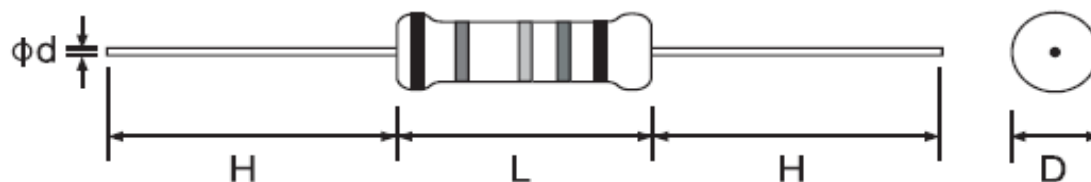
Part No.: **X33005**

| | | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|-----------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 23.10.2011 | Customer: |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | 2 from 6 | | |

EDCON-COMPONENTS



Dimensions



| Power Rating at 70°C | Dimension (mm) | | | | |
|-------------------------|----------------|--------|--------|-----|-------------|
| | D max. | L max. | d±0.05 | H±3 | Packing Qty |
| 2W | 6,5 | 17,5 | 0,75 | 28 | 500PCS |

| Maximum Working Voltage | Maxi,u, Overload Voltage | Dielectric Withstanding Voltage | Tolerance | Resistange Range | For other ranges please consult EDCON |
|-------------------------|--------------------------|---------------------------------|-----------|------------------|---------------------------------------|
| 500V | 1000V | 1000V | ± 1% | 1Ω ~ 10MΩ | |
| | | | ± 2% | 1Ω ~ 10MΩ | |
| | | | ± 5% | 1Ω ~ 10MΩ | |

**Carbon Film Fixed Resistor N-
Size 6,5x17,5mm 2Watt**

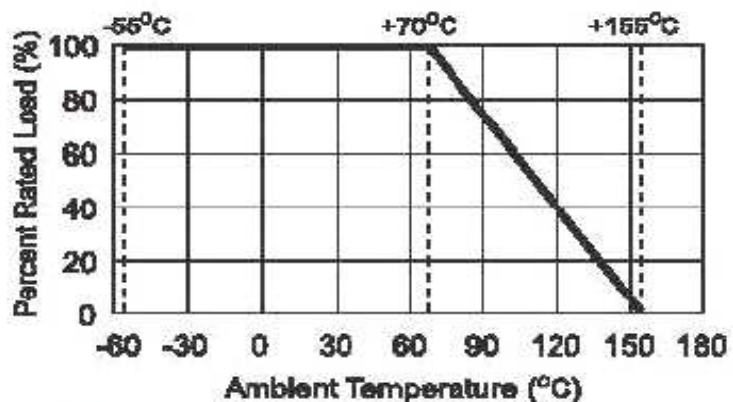
Part No.: **X33005**

| | | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|-----------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 23.10.2011 | Customer: |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | | 3 from 6 | |

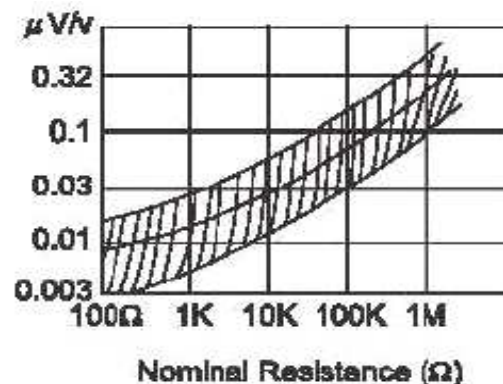
EDCON-COMPONENTS



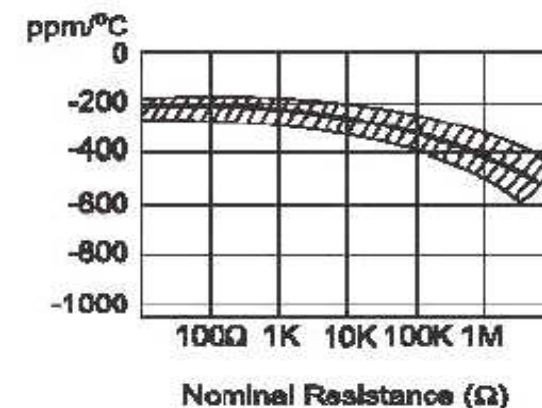
Derating Curve



Current Noise



Heat Rise Chart



**Carbon Film Fixed Resistor N-
Size 6,5x17,5mm 2Watt**

Part No.: **X33005**

| | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 23.10.2011 |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | 4 from 6 | Customer: |

EDCON-COMPONENTS



Ordering Informations

| Serie | Range | Tolerance | Feature | Special function | ROHS | Packing Code |
|-------|-------|-----------|---------|------------------|------|--------------|
|-------|-------|-----------|---------|------------------|------|--------------|

| | | | | | | |
|---------------|------------|----------|----------|-----------|----------|-----------|
| X33005 | 106 | J | S | 00 | R | TA |
|---------------|------------|----------|----------|-----------|----------|-----------|

| | | | | | |
|---------------------------------|----------------------------|-------------------------|------------------------|----------------------------|---------------------------|
| 106= 10MΩ f. Tol. 5% | F= 1% | S= Standard | 00= no function | R= ROHS Conform | BU= Bulk Ware |
| 1005= 10MΩ f. Tol. 1% | G= 2% | I= Non Inductive | | N= NON ROHS Conform | TA= Tape Ammo Pack |
| | J= 5% (Standard) | F= Non Flame | | | TR= Tape Reel |

**Carbon Film Fixed Resistor N-
Size 6,5x17,5mm 2Watt**

Part No.: **X33005**

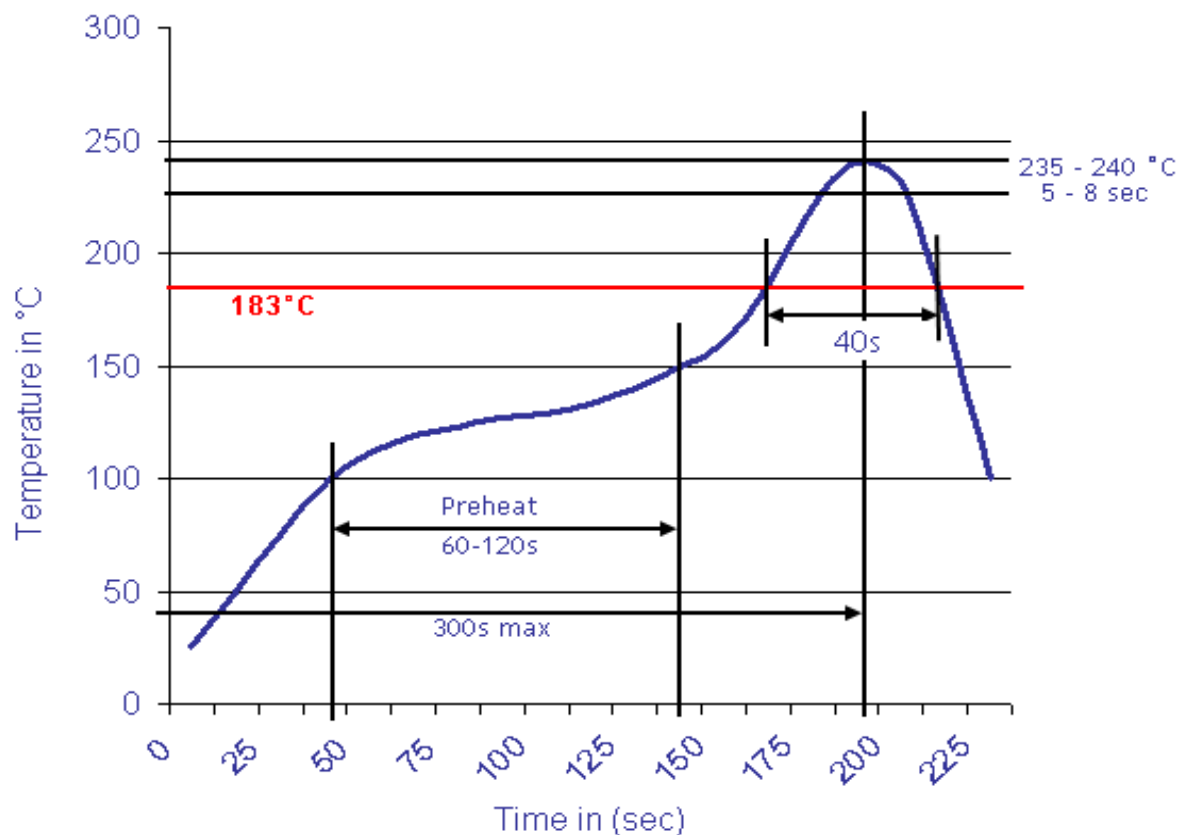
| | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 23.10.2011 |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | | 5 from 6 |

Customer:



Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)



| | |
|--|---------------|
| Carbon Film Fixed Resistor N- Size 6,5x17,5mm 2Watt | |
| Part No.: | X33005 |
| Customer: | |

| | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 23.10.2011 |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | 6 from 6 | |