

Kunde / customer :

Artikelnummer / part number : **820 543 011**

Datum / Date : **2007-02-27**

Bezeichnung :

description : **STANDARD VARISTOR DISC**

DIAM: **14** MM

ROHS Compliant

A Elektrische Eigenschaften / electrical properties :

TECHNICAL DATA

| Part Number | Breakdown Voltage | Tolerance | Working Voltage | | Clamping Voltage | Current Clamp. Volt. | Peak Current Withstanding C. |
|------------------|-------------------|-----------|-----------------|------------|------------------|----------------------|------------------------------|
| | (V@mA) (*1) | | (%) | AC | DC | V (*2) | (A) |
| 820543011 | 470 | 10 | 300 | 385 | 775 | 50 | 4500 |

* 1 The varistor voltage was measured at 0.1 mA current for 5 mm diameter and 1 mA current for other

* 2 The Clamping voltage measured at "Current Clamping Voltage" see next column

* 3 The Peak Current was tested at 8/20 us waveform for 1 time

| Part Number | Rated Wattage | Energy | Capacitance | UL | Certification CSA | VDE | Diameter |
|------------------|---------------|--------------|-------------|------------|-------------------|------------|-----------|
| | (W) | J (*4) | pF (*5) | (*6) | (*7) | (*8) | (mm) |
| 820543011 | 0.6 | 140.0 | 420 | yes | yes | yes | 14 |

* 4. The Energy measured at 10/1000 µs waveform for 1 time

* 5. The capacitance value measured at standard frequency @ 1kHz

* 6. Certification UL N° XUHT2.E244196

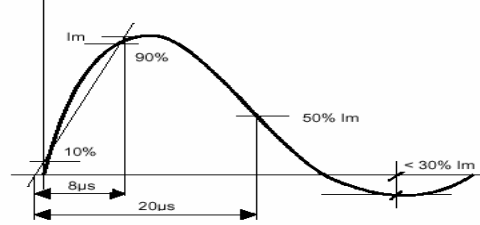
* 7. Certification CSA N° XUHT8.E244196

* 8. Certification VDE N° 40016998 & 40016986

SURGE LEVEL IEC61000-4-5

| Severity Level | (kV) |
|----------------|---------|
| 1 | 0,5 |
| 2 | 1 |
| 3 | 2 |
| 4 | 4 |
| X | Special |

Wave shape "Short circuit" (Current I_{sc})



| Wave during | T1 | T2 |
|-----------------|-------|---------|
| 8/20 µs | 10 µs | 1000 µs |
| 10/700 µs CCITT | 10 µs | 700 µs |
| 10/1000 µs | 10 µs | 1000 µs |

ORDER CODE

820

MARKING CODE

X X XXX X

S

Varistor Type

Serie

Diameter

Vrms Voltage

Tolerance

Other

Special Type

Disc Varistor

5 = Standard
4 = High Surge

5 = 5 mm
7 = 7 mm
1 = 10 mm
4 = 14 mm
2 = 20 mm

5 = 5%
1 = 10%
6 = 15%
2 = 20%
7 = 25%
3 = 30%

Lead Diameter See Table
Lead Pitch See Table
Lead Style Straight lead
Packing Ammopack with lead 20 mm

Example:
180 = 18 V
271 = 270 V
102 = 1 000 V

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Bezeichnung :

description : **STANDARD VARISTOR DISC**

DIAM: **14** MM

B Mechanische Abmessungen / dimensions :

SIZE

| Diameter* | Ø 5 | Ø 7 | Ø 10 | Ø 14 | Ø 20 |
|-----------|-----|-----|---------|----------|----------|
| D max. | 7,5 | 9,0 | 12,5 | 16,5 | 23,0 |
| d +/-0,05 | 0,6 | 0,6 | 0,6/0,8 | 0,8/1,0 | 0,8/1,0 |
| F +/-1,0 | 5,0 | 5,0 | 5,0/7,5 | 7,5/10,0 | 7,5/10,0 |
| H max. | 11 | 13 | 18 | 22 | 28 |
| H1 max | 3,5 | 3,5 | 5,0 | 5,0 | 5,0 |
| L1 min. | 25 | 25 | 25 | 25 | 25 |
| L min. | 24 | 24 | 24 | 24 | 24 |

(mm) - *Disc diameter before epoxy

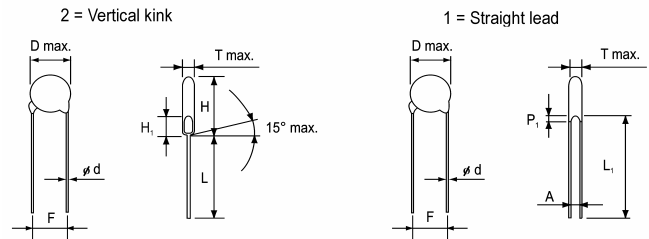


Table of T max., A & P₁. Unit : (mm)

| Diameter | Ø 5 | | | Ø 7 | | | Ø 10 | | | Ø 14 | | | Ø 20 | | |
|----------|-------|----------|----------------|-------|----------|----------------|-------|----------|----------------|-------|----------|----------------|-------|----------|----------------|
| | T max | A +/-0,8 | P ₁ | T max | A +/-0,8 | P ₁ | T max | A +/-0,8 | P ₁ | T max | A +/-0,8 | P ₁ | T max | A +/-0,8 | P ₁ |
| 110 | 4,5 | 1,4 | 3,0 | 4,5 | 1,4 | 3,0 | 4,9 | 1,4 | 3,0 | 5,0 | 1,5 | 3,0 | 5,2 | 1,5 | 3,0 |
| 140 | 4,5 | 1,5 | 3,0 | 4,5 | 1,5 | 3,0 | 4,9 | 1,5 | 3,0 | 5,0 | 1,6 | 3,0 | 5,3 | 1,6 | 3,0 |
| 170 | 4,7 | 1,5 | 3,0 | 4,7 | 1,5 | 3,0 | 5,1 | 1,5 | 3,0 | 5,2 | 1,7 | 3,0 | 5,4 | 1,7 | 3,0 |
| 200 | 4,7 | 1,6 | 3,0 | 4,7 | 1,6 | 3,0 | 5,1 | 1,6 | 3,0 | 5,2 | 1,8 | 3,0 | 5,4 | 1,8 | 3,0 |
| 250 | 4,7 | 1,8 | 3,0 | 4,7 | 1,8 | 3,0 | 5,1 | 1,8 | 3,0 | 5,2 | 2,0 | 3,0 | 5,4 | 2,0 | 3,0 |
| 300 | 5,0 | 1,8 | 3,0 | 5,0 | 1,8 | 3,0 | 5,5 | 1,8 | 3,0 | 5,6 | 2,0 | 3,0 | 5,6 | 2,0 | 3,0 |
| 350 | 5,0 | 2,0 | 3,0 | 5,0 | 2,0 | 3,0 | 5,5 | 2,0 | 3,0 | 5,6 | 2,2 | 3,0 | 5,6 | 2,2 | 3,0 |
| 400 | 5,5 | 2,3 | 3,0 | 5,5 | 2,3 | 3,0 | 6,0 | 2,3 | 3,0 | 6,1 | 2,5 | 3,0 | 6,1 | 2,5 | 3,0 |
| 500 | 3,8 | 1,4 | 3,0 | 3,8 | 1,4 | 3,0 | 4,3 | 1,4 | 3,0 | 4,4 | 1,6 | 3,0 | 4,9 | 1,8 | 3,0 |
| 600 | 3,9 | 1,4 | 3,0 | 3,9 | 1,4 | 3,0 | 4,4 | 1,4 | 3,0 | 4,5 | 1,6 | 3,0 | 5,1 | 1,8 | 3,0 |
| 750 | 4,1 | 1,5 | 3,0 | 4,1 | 1,5 | 3,0 | 4,5 | 1,5 | 3,0 | 4,6 | 1,7 | 3,0 | 5,3 | 1,9 | 3,0 |
| 950 | 4,5 | 1,8 | 3,0 | 4,5 | 1,8 | 3,0 | 4,9 | 1,8 | 3,0 | 5,1 | 2,0 | 3,0 | 5,6 | 2,2 | 3,0 |
| 111 | 4,1 | 1,6 | 3,0 | 4,1 | 1,6 | 3,0 | 4,5 | 1,6 | 3,0 | 4,7 | 1,8 | 3,0 | 5,2 | 2,0 | 3,0 |
| 131 | 4,2 | 1,6 | 3,0 | 4,2 | 1,6 | 3,0 | 4,6 | 1,6 | 3,0 | 4,8 | 1,8 | 3,0 | 5,3 | 2,0 | 3,0 |
| 141 | 4,3 | 1,7 | 3,0 | 4,3 | 1,7 | 3,0 | 4,7 | 1,7 | 3,0 | 4,9 | 1,9 | 3,0 | 5,4 | 2,1 | 3,0 |
| 151 | 4,4 | 1,7 | 3,0 | 4,4 | 1,9 | 3,0 | 4,8 | 1,9 | 3,0 | 5,0 | 2,1 | 3,0 | 5,5 | 2,3 | 3,0 |
| 171 | 4,6 | 1,9 | 3,0 | 4,6 | 2,0 | 3,0 | 5,0 | 2,0 | 3,0 | 5,2 | 2,1 | 3,0 | 5,7 | 2,5 | 3,0 |
| 191 | 4,8 | 1,9 | 3,0 | 4,8 | 2,1 | 3,0 | 5,2 | 2,2 | 3,0 | 5,4 | 2,3 | 3,0 | 5,9 | 2,7 | 3,0 |
| 211 | 4,9 | 1,9 | 3,0 | 4,9 | 2,1 | 3,0 | 5,3 | 2,2 | 3,0 | 5,5 | 2,3 | 3,0 | 6,0 | 2,7 | 3,0 |
| 231 | 5,1 | 2,4 | 3,0 | 5,1 | 2,5 | 3,0 | 5,5 | 2,5 | 3,0 | 5,7 | 2,7 | 3,0 | 6,2 | 2,9 | 3,0 |
| 251 | 5,3 | 2,6 | 3,5 | 5,3 | 2,6 | 3,5 | 5,7 | 2,8 | 3,5 | 5,9 | 2,8 | 3,5 | 6,4 | 3,0 | 3,5 |
| 271 | 6,1 | 2,7 | 3,5 | 6,1 | 2,9 | 3,5 | 6,5 | 3,1 | 3,5 | 6,7 | 3,1 | 3,5 | 7,2 | 3,3 | 3,5 |
| 301 | 6,4 | 2,8 | 3,5 | 6,4 | 2,9 | 3,5 | 6,8 | 3,2 | 3,5 | 7,2 | 3,3 | 3,5 | 7,5 | 3,5 | 4,0 |
| 321 | 6,6 | 3,1 | 4,0 | 6,6 | 3,1 | 4,0 | 7,0 | 3,7 | 4,0 | 7,2 | 3,7 | 4,0 | 7,7 | 3,9 | 4,0 |
| 351 | 6,9 | 3,4 | 4,0 | 6,9 | 3,4 | 4,0 | 7,3 | 4,0 | 4,0 | 7,5 | 4,0 | 4,0 | 8,0 | 4,2 | 4,0 |
| 381 | 7,2 | 3,7 | 4,0 | 7,2 | 3,7 | 4,0 | 7,6 | 4,6 | 4,0 | 7,8 | 4,4 | 4,0 | 8,3 | 4,7 | 4,0 |
| 421 | 7,5 | 4,0 | 4,0 | 7,5 | 4,0 | 4,0 | 8,0 | 5,0 | 4,0 | 8,2 | 4,7 | 4,0 | 8,7 | 5,0 | 4,0 |
| 461 | 7,9 | 4,3 | 4,0 | 7,9 | 4,3 | 4,0 | 8,4 | 5,0 | 4,0 | 8,6 | 4,9 | 4,0 | 9,1 | 5,1 | 4,0 |
| 481 | | | | 8,1 | 4,5 | 4,0 | 8,6 | 5,2 | 4,0 | 8,8 | 5,2 | 4,0 | 9,3 | 5,4 | 4,0 |
| 511 | | | | 8,3 | 4,7 | 4,0 | 8,8 | 5,2 | 4,0 | 9,0 | 5,2 | 4,0 | 9,5 | 5,4 | 4,0 |
| 551 | | | | | | | 9,4 | 6,0 | 4,0 | 9,6 | 6,0 | 4,0 | 10,1 | 6,3 | 4,0 |
| 621 | | | | | | | 9,9 | 6,0 | 4,0 | 10,1 | 6,2 | 4,0 | 10,7 | 6,4 | 4,0 |
| 681 | | | | | | | 10,5 | 6,3 | 4,0 | 10,7 | 6,7 | 4,0 | 11,2 | 6,9 | 4,0 |
| 102 | | | | | | | 12,6 | 9,8 | 6,0 | 12,8 | 10,2 | 6,0 | 13,5 | 10,4 | 6,0 |

Kunde / customer :

Artikelnummer / part number : **820543011**

Bezeichnung :

description : **STANDARD VARISTOR DISC** DIAM: **14** MM

C Lötpad / soldering spec. :

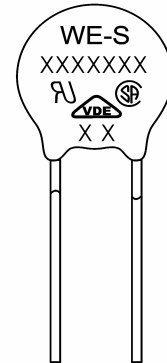
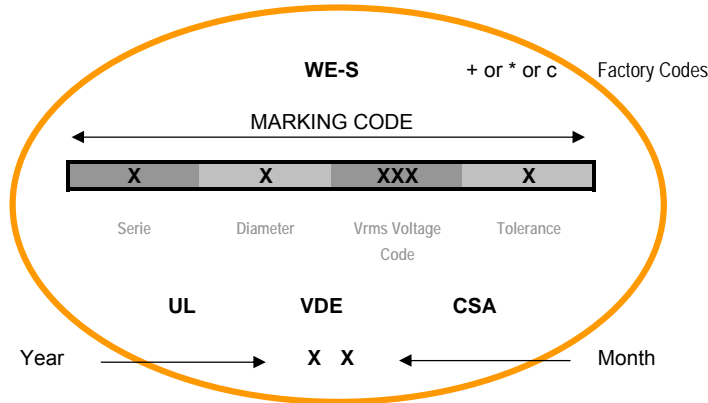
MARKING

Würth Elektronik

Characteristic

Certification

Date Code



GENERAL CHARACTERISTICS

| | |
|--------------------------------------|--------------------|
| Storage temperature : | -40 / +125°C |
| Max. reponse time : | 25 n sec |
| Max. operating temperature : | -40 / +125°C |
| Temp. Coefficient of voltage : | 0 - 0.05% / °C max |
| Max. working surface temperature : | +115°C |
| Insulation resistance (at DC 500V) : | Over 1000 Mohm |

LEAD FREE SOLDERING

| | |
|--------------------------|------------------|
| Solder | Tin 100% |
| Soldering temperature at | 255°C +/-5 °C |
| Profile soldering | 270°C during 10s |

Kunde / customer :

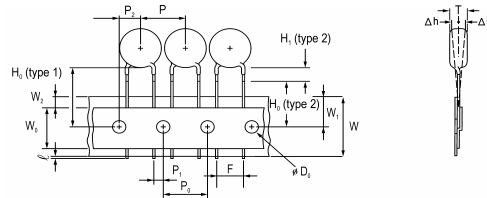
Artikelnummer / part number : **820543011**

Bezeichnung :

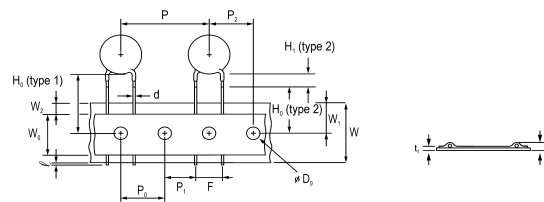
description : **STANDARD VARISTOR DISC** DIAM: **14** MM

D Rollenspezifikation / tape and reel specification :

TAPE 1/2" pitch



1.0" pitch



| Item | Ø 5 / 7 | Ø 10 | Ø 10 / 14 / 20 | Ø 14 / 20 |
|-------------------------|----------------------|------------|-----------------------|----------------------|
| Taping pitch | 1/2" | | 1.0" | |
| I | 1,1 mm maxi. | | 1,1 mm maxi. | |
| H ₁ (type 2) | 3,5 mm maxi. | 5 mm maxi. | 5 mm maxi. | |
| H ₀ (type 2) | 16 +/-0,5 mm | | 16 +/-0,5 mm | |
| H ₀ (type 1) | 16 à 21 mm | | 16 à 21 mm | |
| h | +/-2 mm | | +/-2 mm | |
| W | 18 mm +1 / - 0,5 mm | | 18 mm +1 / - 0,5 mm | |
| W ₀ | 10 mm | | 12 mm | |
| W ₁ | 9 mm +0,75 / -0,5 mm | | 9 mm +0,75 / -0,5 mm | |
| W ₂ | 3 mm maxi. | | 3 mm maxi. | |
| F | 5 mm +0,8 / -0,2 mm | | 7,5 mm +0,8 / -0,2 mm | 10 mm +0,8 / -0,2 mm |
| P | 12,7 mm +/-1 mm | | 25,4 mm +/-1 mm | |
| P ₀ | 12,7 mm +/-0,3 mm | | 12,7 mm +/-0,3 mm | |
| P ₁ | 3,85 mm +/-0,7 mm | | 8,95 mm +/-0,7 mm | 7,7 mm +/-0,7 mm |
| P ₂ | 6,35 mm +/-1,3 mm | | 12,7 mm +/-1,3 mm | |
| D ₀ | 4 mm +/-0,2 mm | | 4 mm +/-0,2 mm | |
| d | 0,6 mm +/-0,05 mm | | 0,8 mm +/-0,05 mm | 1,0 mm +/-0,05 mm |
| T | See T max. table | | See T max. table | |
| t ₁ | 0,7 mm +/-0,05 mm | | 0,6 mm +/-0,05 mm | |
| t ₂ | 1,6 mm maxi. | | 1,8 mm maxi. | |

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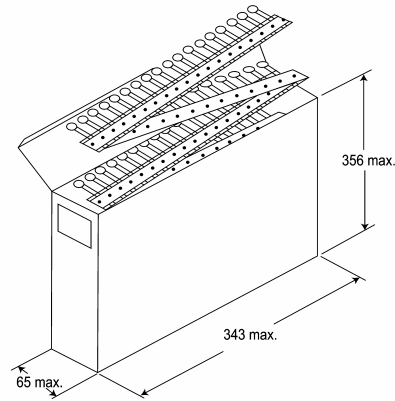
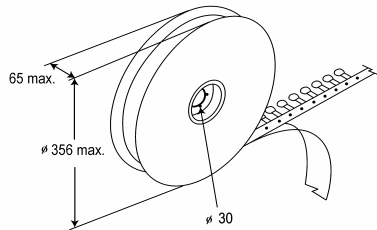
Bezeichnung :

description : **STANDARD VARISTOR DISC** DIAM: **14** MM

D Rollenspezifikation / tape and reel specification :

REEL DIMENSION

(Unit : mm)



Lead Free "LF" Marking

QUANTITY PER PACKING UNIT

| Diameter | Ø 5 | | | Ø 7 | | | Ø 10 | | | | Ø 14 | | | Ø 20 | | |
|---------------|-------|------|------|-------|------|------|-------|------|-------------------|------|-------|------|------|-------|------|------|
| | Bulk | Reel | Ammo | Bulk | Reel | Ammo | Bulk | Reel | Ammo | Ammo | Bulk | Reel | Ammo | Bulk | Reel | Ammo |
| Voltage Serie | (Box) | | | (Box) | | | (Box) | | Pitch 7,5 Pitch 5 | | (Box) | | | (Box) | | |
| 180 à 470 | 5000 | 1500 | 1500 | 5000 | 1500 | 1500 | 2500 | 1000 | 500 | 1000 | 1500 | 750 | 500 | 750 | 500 | 500 |
| 560 à 680 | 5000 | 1500 | 1500 | 5000 | 1500 | 1500 | 2500 | 1000 | 500 | 1000 | 1500 | 750 | 500 | 750 | 500 | 500 |
| 820 à 331 | 5000 | 1500 | 1500 | 5000 | 1500 | 1500 | 2500 | 1000 | 500 | 1000 | 1500 | 750 | 500 | 750 | 500 | 500 |
| 361 à 391 | 5000 | 1500 | 1000 | 5000 | 1500 | 1000 | 2500 | 1000 | 500 | 1000 | 1500 | 750 | 500 | 750 | 500 | 500 |
| 431 à 471 | 5000 | 1500 | 1000 | 5000 | 1000 | 1000 | 2500 | 750 | 500 | 750 | 1500 | 750 | 500 | 750 | 500 | 500 |
| 511 à 751 | 4000 | 1000 | 1000 | 4000 | 1000 | 1000 | 1500 | 500 | 500 | 500 | 750 | 500 | 500 | 450 | 500 | 500 |
| 781 à 182 | - | - | - | - | - | - | 1500 | 500 | 500 | 500 | 750 | 500 | 500 | 450 | 500 | 500 |

QUANTITY PER CARTON UNIT

| Packaging | Bulk (Box) | Reel | Reel Ø 14 / 20 | Ammopack | Ammo Ø 14 / 20 |
|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|
| Box size | 290 x 155 x 110 | 350 x 350 x 108 | 350 x 350 x 74 | 330 x 240 x 45 | 350 x 260 x 65 |
| Carton size | 310 x 328 x 250 | 371 x 371 x 590 | 370 x 370 x 468 | 354 x 515 x 258 | 365 x 535 x 275 |
| One carton with | 4 boxes | 5 boxes (10 reels) | 6 boxes | 10 boxes | 8 boxes |
| Unit:(mm) | | | | | |

Würth Elektronik eiSos GmbH & Co.KG - Radialex department

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<http://www.we-online.com>

Kunde / customer :

Artikelnummer / part number : 820 543 011

Bezeichnung :

description : STANDARD VARISTOR DISC DIAM: 14 MM

E Testbedingungen / test conditions :

BASIC TEST AND ENVIRONMENTAL RELIABILITY TEST

Humidity

The specimen shall be subjected to $40 \pm 2^\circ\text{C}$, 90 to 95% R.H. For 1000 hours without load and then stored at room temperature and normal humidity for 1 to 2 hours. Thereafter, the change of V_n shall be measured and meet the requirement of:

$$\Delta V_n/V_n \leq \pm 5\%$$

Impulse life

The impulse current listed on catalog is applied 1000 times continuously with the interval of 30 seconds at room temperature. The change of V_n shall be measured

$$\Delta V_n/V_n \leq \pm 10\%$$

Low temperature

The specimen shall be subjected to $40 \pm 2^\circ\text{C}$ without load for 1000 hours and then stored at room temperature and normal humidity for 1 to 2 hours. Thereafter, the change of V_n shall be measured and meet the requirement of $\Delta V_n/V_n \leq \pm 5\%$.

High temperature load

After being continuously applied the maximum allowable voltage at $85 \pm 2^\circ\text{C}$ for 1000 hours, the specimen shall be stored at room temperature and humidity for 1 to 2 hours. The change of V_n shall be measured and meet the requirement of $V_n/V_n \leq \pm 10\%$.

High temperature storage

The specimen shall be subjected to $125 \pm 1^\circ\text{C}$ for 1000 hours. In a drying oven without load stored at room temperature and humidity for 1 to 2 hours. The change of V_n shall be measured and meet the requirement of $\Delta V_n/V_n \leq \pm 5\%$.

Withstanding Voltage

The specified voltage shall be applied between both terminals of the specimen connected together for 1 minute, with no remarkable mechanical damage.

Withstanding Voltage (Body Insulation)

| Classification (Nom. varistor voltage) | Test Voltage (AC) |
|--|-------------------|
| $V_{0,1\text{mA}} - V_{1\text{mA}} \leq 330 \text{ V}$ | 1 000 Vrms |
| $V_{0,1\text{mA}} - V_{1\text{mA}} > 330 \text{ V}$ | 1 500 Vrms |

Terminal pull strength

After gradually applying the load specified below and keeping the unit fixed for 10 ± 1 seconds, with no remarkable mechanical damage.

| Terminal diameter | Loading weight in pull strength |
|-------------------|---------------------------------|
| 0.6 mm (0.024") | 10N (1.02Kg) |
| 0.8 mm (0.031") | 10N (1.02Kg) |
| 1.0 mm (0.039") | 20N (2.04Kg) |

Terminal bending strength

The unit shall be secured with its terminal kept vertical and the weight specified above shall be applied in the axial direction. The terminal shall gradually be bent 90° in one direction, then 90° in the opposite direction, and again back to the original position. A bend of lead wire shall be repeated 2 times, with no remarkable mechanical damage.

Loading weight in bending strength

5N (0.51Kg)

5N (0.51Kg)

10N (1.02Kg)

Vibration

Subjected to simple harmonic motion of 0.75 mm amplitude 1.5 mm maximum total excursion between limits of 10-55 Hz. Frequency scan shall be traversed in one minute. This motion shall then be applied for period of 2 hours in each of three mutually perpendicular directions, with no remarkable mechanical damage.

Solderability

After dipping the terminal to a depth of approximately 3mm from the body in a soldering bath of $235 \pm 5^\circ\text{C}$ for 2 ± 0.5 seconds, the terminal shall be visually examined. Approximately 95% of the terminals shall be covered with new solder uniformly.

Resistance to soldering heat

The terminal shall be dipped into a soldering bath with temperature of $260 \pm 5^\circ\text{C}$ to a point of 2~2.5 mm from the body of the unit, be held there for 10 ± 1 sec (5N series: 5 ± 1 sec) and then be stored at room temperature and humidity for 1 to 2 hours. The change of V_n shall be measured and meet the requirement of $\Delta V_n/V_n \leq \pm 5\%$ with no remarkable mechanical damage.

Damp heat load

The specimen shall be subjected to $40 \pm 2^\circ\text{C}$, 90 to 95% R.H. and the maximum allowable voltage for 100 hours and then stored at room temperature and normally humidity for 1 to 2 hours. The change of V_n shall be measured and meet the requirement of $\Delta V_n/V_n \leq \pm 10\%$.

Temperature cycle

The temperature cycle is repeated five cycles with (1) $40 \pm 3^\circ\text{C}$ keeping 30 ± 3 minutes then (2) room temperature keeping 15 ± 3 minutes then (3) $125 \pm 2^\circ\text{C}$ keeping 30 ± 3 minutes then (4) room temperature keeping 15 ± 3 minutes and then stored at room temperature and humidity for 1 to 2 hours. The change of V_n shall be measured and meet requirement $\Delta V_n/V_n \leq \pm 5\%$ with no remarkable mechanical damage.

| | | | | |
|--|--------------------------|-------------------------|-------------------------|--------------|
| Freigabe erteilt / general release: | Kunde / customer | | | |
| Datum / date | Unterschrift / signature | JP Penlou | New P/N | 2006-06-01 |
| | Würth Elektronik | JP Penlou | Customer Layout | 2006-05-11 |
| | | JP Penlou | Factory codes | 2005-11-16 |
| | | JP Penlou | Lead Free Marking | 2004-10-19 |
| Geprüft / checked | 2006-06-01 | Kontrolliert / approved | JP. Penlou | |
| | | Name | Änderung / modification | Datum / date |

Würth Elektronik eiSos GmbH & Co.KG - Radialex department

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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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