

Kingtronics®

DKT-DZ

Radial, Snap-in, Screw Super Capacitor

FEATURES

- ◆ Radial type, Snap-in type, Screw Type terminals
- ◆ High energy and high power
- ◆ Low ESR
- ◆ Pb-free and RoHS compliant



APPLICATIONS

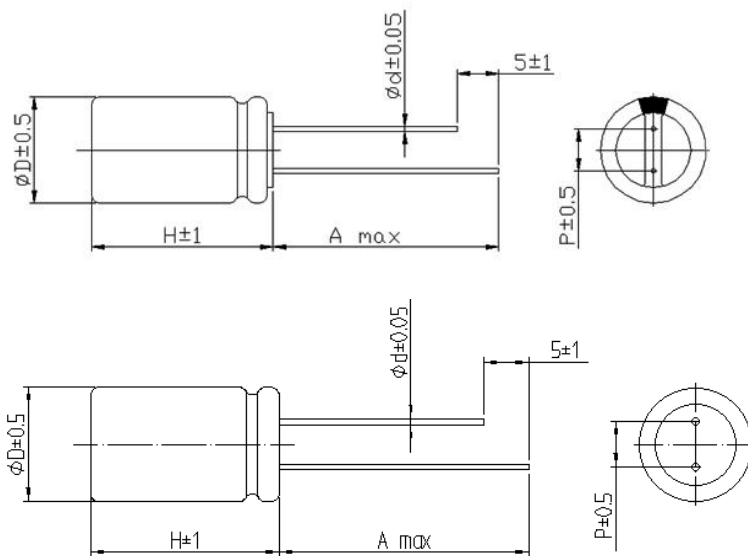
- ◆ RAM, Detonator, car recorder, smart meter, vacuum switch, digital camera, motor drive, clock circuit, UPS, toy, program-controlled switch, etc.

SPECIFICATIONS

| Series name | DKT-DZ Series High power type | |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Type name | DKT-DZ 2R7 | DKT-DZ 3R0 |
| Rated voltage V_R | 2.7V | 3.0V |
| Surge voltage | 2.85V | 3.15V |
| Capacity range | 0.1F~3000F | 1F~500F |
| Operating temperature range | -40~ +70°C | -40~ +65°C |
| Product life | Normal temperature cycle life : 25°C, 1 million cycles between V_R and $1/2V_R$, Capacity attenuation $\leq 30\%$, ESR change ≤ 4 times. High temperature endurance life : Maximum temperature retention $V_R \cdot 1000$ hours. Capacity attenuation $\leq 30\%$, ESR change ≤ 4 times. | |

DIMENSIONS (mm)

0.1-120F



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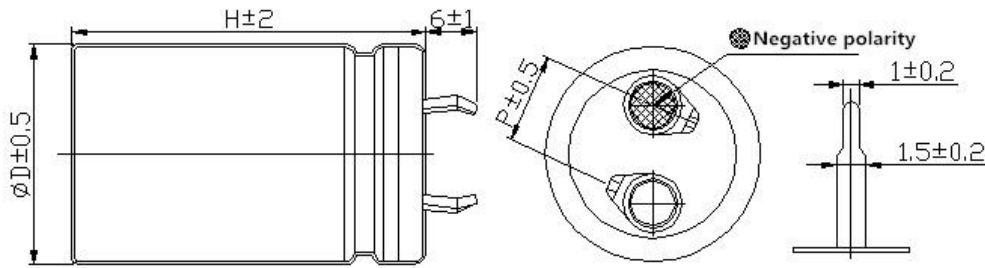
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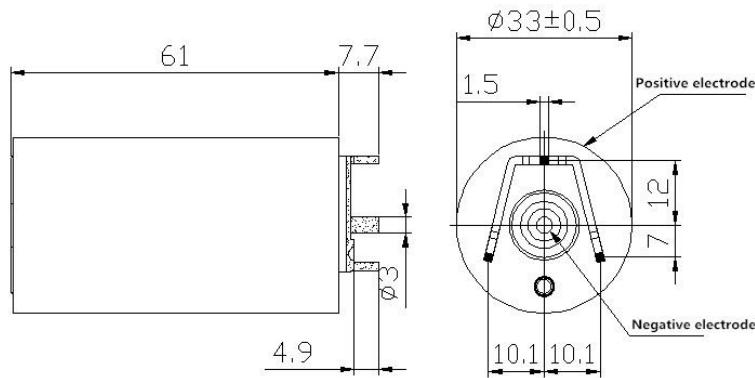
Radial, Snap-in, Screw Super Capacitor

DIMENSIONS (mm)

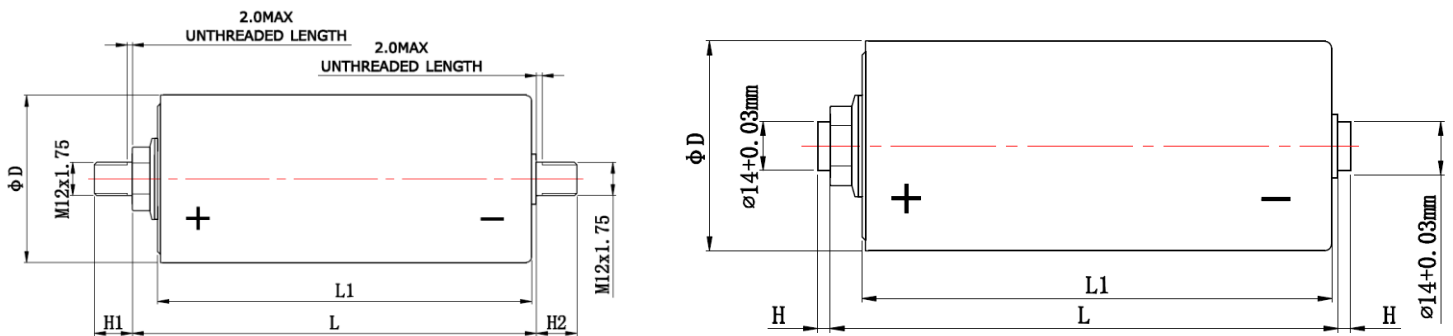
90-700F



350F



3000F



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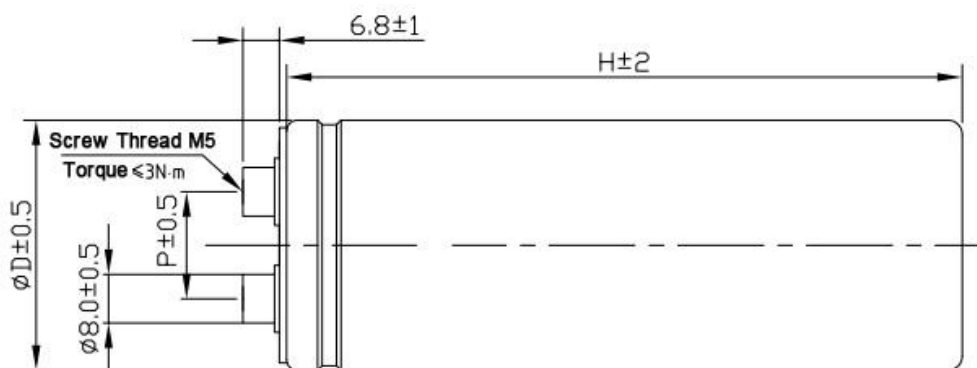
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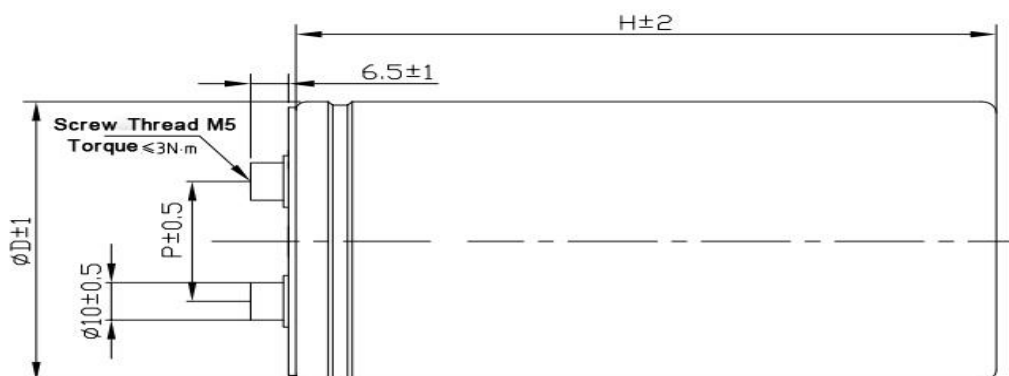
Radial, Snap-in, Screw Super Capacitor

DIMENSIONS (mm)

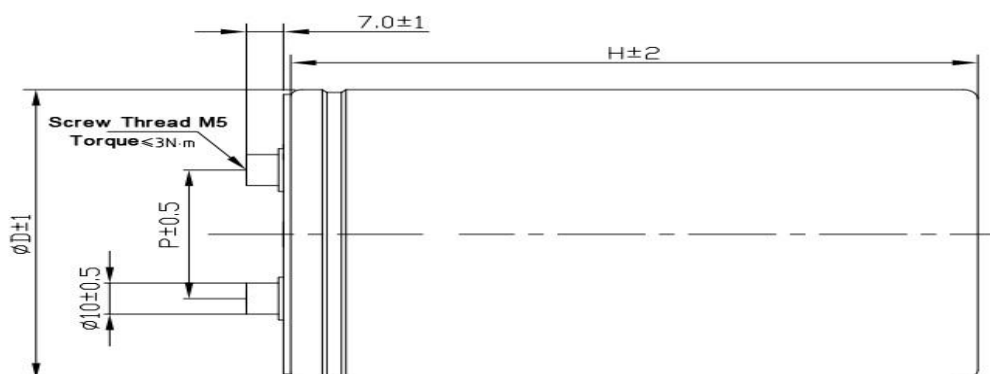
650F~800F bolt series product size specifications



1000F~2400F bolt series product size specifications



3000F bolt series product size specifications



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STANDARD RATINGS

| Capacity (F) | ESR mΩ | | Product size (mm) | | |
|----------------------------|--------|---------|-------------------|--------|--------------|
| | DC | AC 1kHz | Diameter | Height | Pin distance |
| Rated voltage: 2.7V | | | | | |
| 0.1 | 675 | 450 | 5 | 12 | 2 |
| 0.1 | 1400 | 700 | 5 | 12 | 2 |
| 0.1 | 1400 | 700 | 5 | 10 | 2 |
| 0.15 | 500 | 250 | 5 | 10 | 2 |
| 0.15 | 600 | 400 | 5 | 12 | 2 |
| 0.2 | 1200 | 600 | 5 | 10 | 2 |
| 0.2 | 400 | 200 | 5 | 12 | 2 |
| 0.22 | 750 | 500 | 5 | 12 | 2 |
| 0.25 | 750 | 500 | 5 | 12 | 2 |
| 0.25 | 750 | 500 | 6.3 | 12 | 2.5 |
| 0.25 | 4000 | 200 | 5 | 12 | 2 |
| 0.35 | 500 | 250 | 5 | 12 | 2 |
| 0.35 | 600 | 400 | 5 | 12 | 2 |
| 0.5 | 700 | 350 | 6.3 | 10 | 2.5 |
| 0.5 | 700 | 350 | 6.3 | 12.5 | 2.5 |
| 0.5 | 750 | 500 | 5 | 12 | 2 |
| 0.5 | 750 | 500 | 6.3 | 12 | 2.5 |
| 0.7 | 600 | 300 | 8 | 13 | 3.5 |
| 0.7 | 600 | 400 | 8 | 13 | 3.5 |
| 0.7 | 2600 | 1300 | 4 | 18 | 1.6 |
| 1 | 300 | 200 | 8 | 19 | 3.5 |
| 1 | 450 | 300 | 8 | 13 | 3.5 |
| 1 | 450 | 300 | 6.3 | 12 | 2.5 |
| 1 | 600 | 300 | 8 | 13.3 | 3.5 |
| 1 | 1100 | 550 | 6.3 | 10 | 2.5 |
| 1 | 1300 | 650 | 6.3 | 12.5 | 2.5 |
| 1.5 | 500 | 250 | 8 | 16 | 3.5 |
| 1.5 | 600 | 300 | 10 | 13 | 5 |
| 1.5 | 700 | 350 | 8 | 13 | 3.5 |
| 1.5 | 700 | 350 | 6.3 | 14 | 2.5 |
| 2 | 210 | 140 | 8 | 13 | 3.5 |
| 2 | 210 | 140 | 8 | 19 | 3.5 |
| 2 | 210 | 140 | 10 | 20 | 5 |
| 2 | 240 | 120 | 10 | 20 | 5 |
| 2 | 260 | 130 | 8 | 20.2 | 3.5 |
| 2 | 480 | 240 | 6.3 | 22 | 2.5 |
| 2 | 400 | 200 | 8 | 16 | 3.5 |
| 2 | 500 | 250 | 6.3 | 17 | 2.5 |
| 2.2 | 240 | 120 | 10 | 20 | 5 |
| 3 | 150 | 100 | 8 | 20.2 | 3.5 |
| 3 | 180 | 120 | 8 | 16 | 3.5 |
| 3 | 500 | 250 | 6.3 | 22 | 2.5 |

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STANDARD RATINGS

| Capacity (F) | ESR (mΩ) | | Product size (mm) | | |
|---------------------|----------|---------|-------------------|--------|--------------|
| | DC | AC 1kHz | Diameter | Height | Pin distance |
| Rated voltage: 2.7V | | | | | |
| 3.3 | 120 | 80 | 10 | 20 | 5 |
| 3.3 | 140 | 70 | 10 | 20 | 5 |
| 3.3 | 150 | 100 | 10 | 16 | 5 |
| 3.3 | 180 | 120 | 8 | 19 | 3.5 |
| 3.3 | 240 | 120 | 8 | 20 | 3.5 |
| 3.3 | 500 | 250 | 6.3 | 22 | 2.5 |
| 4 | 120 | 80 | 10 | 20 | 5 |
| 4 | 140 | 70 | 10 | 20 | 5 |
| 4 | 200 | 100 | 12.5 | 21 | 5 |
| 4 | 200 | 100 | 8 | 20 | 3.5 |
| 4.7 | 105 | 70 | 12.5 | 21 | 5 |
| 4.7 | 120 | 60 | 12.5 | 21 | 5 |
| 5 | 105 | 70 | 12.5 | 21 | 5 |
| 5 | 180 | 90 | 10 | 20 | 5 |
| 5 | 180 | 90 | 8 | 24 | 3.5 |
| 5 | 180 | 90 | 8 | 20 | 3.5 |
| 6 | 105 | 70 | 12.5 | 21 | 5 |
| 6 | 120 | 60 | 10 | 25 | 5 |
| 6 | 150 | 75 | 10 | 20.2 | 5.5 |
| 6 | 300 | 150 | 8 | 24 | 3.5 |
| 7 | 105 | 70 | 10 | 25 | 5 |
| 7 | 160 | 80 | 10 | 20 | 5 |
| 7 | 160 | 80 | 8 | 30 | 3.5 |
| 8 | 75 | 50 | 12.5 | 21 | 5 |
| 8 | 100 | 50 | 12.5 | 21 | 5.5 |
| 10 | 75 | 50 | 12.5 | 26.2 | 5.5 |
| 10 | 75 | 50 | 10 | 30 | 5 |
| 10 | 90 | 60 | 12.5 | 21 | 5 |
| 10 | 80 | 40 | 12.5 | 25 | 5 |
| 10 | 80 | 40 | 10 | 34 | 5 |
| 10 | 100 | 50 | 10 | 25.2 | 5.5 |
| 10 | 110 | 55 | 10 | 30.5 | 5.5 |
| 10 | 110 | 55 | 12.5 | 21 | 5 |
| 12 | 75 | 50 | 12.5 | 26 | 5 |
| 12 | 80 | 40 | 12.5 | 34 | 5 |
| 12 | 80 | 40 | 12.5 | 21 | 5 |
| 15 | 45 | 30 | 16 | 26 | 7.5 |
| 15 | 60 | 30 | 16 | 26.3 | 7.5 |
| 15 | 70 | 35 | 12.5 | 25 | 5 |
| 15 | 76 | 38 | 12.5 | 30.7 | 5.5 |
| 15 | 80 | 40 | 10 | 30 | 5 |
| 16 | 76 | 38 | 16 | 20 | 7.5 |

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STANDARD RATINGS

| Capacity (F) | ESR (mΩ) | | Product size (mm) | | |
|---------------------|----------|---------|-------------------|--------|--------------|
| | DC | AC 1kHz | Diameter | Height | Pin distance |
| Rated voltage: 2.7V | | | | | |
| 18 | 60 | 30 | 12.5 | 25 | 5 |
| 20 | 37.5 | 25 | 16 | 26 | 7.5 |
| 20 | 46 | 23 | 16 | 34 | 7.5 |
| 20 | 50 | 25 | 16 | 26.5 | 7.5 |
| 20 | 50 | 25 | 12.5 | 25 | 5 |
| 20 | 50 | 25 | 12.5 | 34 | 5 |
| 22 | 37.5 | 25 | 16 | 26 | 7.5 |
| 25 | 37.5 | 25 | 16 | 26 | 7.5 |
| 25 | 40 | 20 | 16 | 34 | 7.5 |
| 25 | 50 | 25 | 16 | 26 | 7.5 |
| 25 | 60 | 30 | 12.5 | 34 | 5 |
| 30 | 37.5 | 25 | 16 | 34 | 7.5 |
| 30 | 40 | 20 | 16 | 34 | 7.5 |
| 30 | 44 | 22 | 12.5 | 34 | 5 |
| 30 | 44 | 22 | 18 | 26 | 7.5 |
| 30 | 44 | 22 | 16 | 32 | 7.5 |
| 35 | 40 | 20 | 16 | 26 | 7.5 |
| 40 | 30 | 20 | 18 | 41 | 8 |
| 40 | 40 | 20 | 16 | 34 | 7.5 |
| 40 | 40 | 20 | 18 | 34 | 7.5 |
| 40 | 40 | 20 | 18 | 41.3 | 7.5 |
| 50 | 30 | 20 | 18 | 41 | 8 |
| 50 | 40 | 20 | 18 | 41.3 | 7.5 |
| 50 | 40 | 20 | 18 | 34 | 7.5 |
| 60 | 16 | 14 | 22.4 | 45.5 | 10 |
| 60 | 22.5 | 15 | 18 | 41 | 8 |
| 60 | 40 | 20 | 18 | 41 | 7.5 |
| 70 | 22.5 | 15 | 18 | 52 | 8 |
| 90 | 30 | 15 | 22 | 46 | 10 |
| 100 | 14 | 12 | 22.4 | 45.5 | 10 |
| 100 | 30 | 15 | 22 | 42 | 10 |
| 100 | 30 | 15 | 22 | 46 | 10 |
| 100 | 30 | 15 | 25.4 | 40 | 10 |
| 100 | 30 | 20 | 18 | 45 | 8 |
| 120 | 14 | 12 | 22.4 | 45.5 | 10 |
| 120 | 30 | 15 | 25.4 | 54 | 10 |
| 120 | 30 | 15 | 22 | 46 | 10 |
| 120 | 30 | 15 | 25.4 | 40 | 10 |
| 150 | 14 | 12 | 25.2 | 52.5 | 10 |
| 150 | 30 | 15 | 25.4 | 54 | 10 |

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STANDARD RATINGS

| Capacity (F) | ESR (mΩ) | | | Product size (mm) | | |
|---------------------|----------|----|------|-------------------|--------|--------------|
| | DC | AC | 1kHz | Diameter | Height | Pin distance |
| Rated voltage: 2.7V | | | | | | |
| 150 | 30 | | 15 | 25.4 | 40 | 10 |
| 180 | 20 | | 10 | 25.4 | 54 | 10 |
| 180 | 20 | | 10 | 30 | 40 | 10 |
| 200 | 11 | | 10 | 35.6 | 61.5 | 10 |
| 200 | 20 | | 10 | 35 | 61 | 10 |
| 200 | 20 | | 10 | 25.4 | 54 | 10 |
| 200 | 20 | | 10 | 30 | 50 | 10 |
| 220 | 11 | | 10 | 30 | 50 | 10 |
| 220 | 20 | | 10 | 30 | 50 | 10 |
| 220 | 20 | | 10 | 35 | 61 | 10 |
| 240 | 20 | | 10 | 30 | 50 | 10 |
| 260 | 20 | | 10 | 30 | 50 | 10 |
| 260 | 20 | | 10 | 35 | 61 | 10 |
| 300 | 9 | | 8 | 35.6 | 61.5 | 10 |
| 300 | 20 | | 10 | 35 | 54 | 10 |
| 300 | 20 | | 10 | 35 | 61 | 10 |
| 360 | 7 | | 3.5 | 35 | 61 | 10 |
| 360 | 9 | | 8 | 35.6 | 61.5 | 10 |
| 400 | 9 | | 8 | 35.6 | 61.5 | 10 |
| 400 | 20 | | 10 | 35 | 61 | 10 |
| 470 | 8 | | 6 | 35.6 | 61.5 | 10 |
| 470 | 10 | | 5 | 35 | 61 | 10 |
| 500 | 20 | | 10 | 35 | 61 | 10 |
| 550 | 20 | | 10 | 35 | 70 | 10 |
| 600 | 20 | | 10 | 35 | 70 | 10 |
| 650 | 10 | | 5 | 35 | 96 | 12.7 |
| 700 | 10 | | 5 | 35 | 96 | 12.7 |
| 800 | 10 | | 5 | 35 | 96 | 12.7 |
| 1000 | 10 | | 5 | 51 | 71 | 21.8 |
| 1200 | 6 | | 3 | 51 | 108 | 21.8 |
| 1500 | 6 | | 3 | 51 | 108 | 21.8 |
| 2000 | 4 | | 2 | 51 | 133 | 21.8 |
| 2400 | 4 | | 2 | 51 | 133 | 21.8 |
| 3000 | 4 | | 2 | 64 | 133 | 28.2 |
| 350 | 3 | | 1.6 | 35 | 62 | / |
| 3000 | 0.29 | | 0.25 | 60 | 140 | / |

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STANDARD RATINGS

| Capacity (F) | ESR (mΩ) | | | Product size (mm) | | |
|---------------------|----------|-----|------|-------------------|--------|--------------|
| | DC | AC | 1kHz | Diameter | Height | Pin distance |
| Rated voltage: 3.0V | | | | | | |
| 1 | 450 | 300 | | 8 | 13 | 3.5 |
| 2 | 210 | 140 | | 8 | 13 | 3.5 |
| 2 | 210 | 140 | | 8 | 19 | 3.5 |
| 3 | 150 | 100 | | 8 | 19 | 3.5 |
| 3.3 | 120 | 80 | | 8 | 19 | 3.5 |
| 3.3 | 120 | 80 | | 10 | 20 | 5 |
| 4.7 | 105 | 70 | | 10 | 20 | 5 |
| 5 | 105 | 70 | | 10 | 20 | 5 |
| 10 | 55 | 35 | | 10 | 25 | 5 |
| 15 | 45 | 30 | | 12.5 | 26 | 5 |
| 25 | 30 | 20 | | 18 | 42 | 7.5 |
| 50 | 22.5 | 15 | | 18 | 42 | 7.5 |
| 60 | 22.5 | 15 | | 18 | 42 | 7.5 |
| 100 | 14 | 12 | | 22.5 | 46 | 10 |
| 120 | 14 | 12 | | 22.5 | 46 | 10 |
| 150 | 12 | 10 | | 25.2 | 52.5 | 10 |
| 360 | 9 | 8 | | 35.6 | 61.5 | 10 |
| 400 | 9 | 8 | | 35.6 | 61.5 | 10 |
| 470 | 8 | 6 | | 35.6 | 61.5 | 10 |

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HOW TO ORDER

| DKT | DZ | 2R7 | 104 | M | 00500120 | 020 | 000 | R | B | R |
|------------|------------|------------|------------|--------------------|-----------------|------------|-------------|------------------|----------|----------|
| Series | Sub Series | Voltage | Capacity | Capacity Tolerance | Dimension | Pitch/Pins | Lead Length | Terminal Options | Packing | Pb |
| | | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. |

NOTE:**1. Voltage**

| Code | 2R7 | 3R0 |
|---------|-----|-----|
| Voltage | 2.7 | 3.0 |

2. Capacity

| Code | 104 | 105 | 106 | 107 | 108 |
|-----------------|-----|-----|-----|-----|------|
| Capacitance (F) | 0.1 | 1.0 | 10 | 100 | 1000 |

3. Capacity Tolerance

| Code | M | V | F |
|-----------|------|-----------|---------|
| Tolerance | ±20% | -10%~+20% | 0%~+30% |

4. Dimension

| Code | 00500120 | 00630125 | 01000200 | 01250210 | 01600260 | 05101080 |
|----------------|----------|----------|----------|----------|----------|----------|
| Dimension (mm) | 5x12 | 6.3x12.5 | 10x20 | 12.5x21 | 16x26 | 51x108 |

5. Pitch/Pins/Screw

| Code | 016 | 020 | 025 | 035 | 050 | 075 | 100 | 127 | 218 | 282 | 4PS | |
|-----------------|-------|-----|-----|-----|-----|-----|------|------|------|------|-------|--|
| Pitch (mm)/Pins | 1.6 | 2.0 | 2.5 | 3.5 | 5.0 | 7.5 | 10.0 | 12.7 | 21.8 | 28.2 | 4pins | |
| Code | 000 | | | | | | | | | | | |
| Pitch (mm) | Screw | | | | | | | | | | | |

6. Lead Length

| Code | 000 | 040 | 045 | 050 |
|-------------|----------|-----|-----|-----|
| Lead Length | Standard | 4.0 | 4.5 | 5.0 |

7. Terminal Options

| Code | R | S | W |
|------------------|--------|---------|-------|
| Terminal Options | Radial | Snap-in | Screw |

8. Packing

| Code | A | B |
|---------|------|------|
| Packing | Ammo | Bulk |

9. Pb

| Code | L | R |
|------|--------|------|
| Pb | Leaded | RoHS |

Note: Specifications are subject to change without notice.

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