

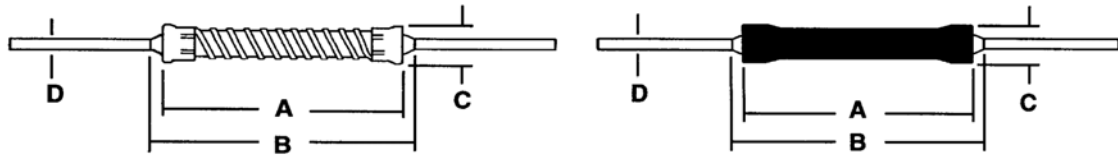
- Features:
- Low cost, high performance
 - Resistance range from 0.2 to 600 ohms
 - Power rating: EL series = 4 watts per inch
 - Power rating: CEL series = 5 watts per inch
 - CEL series has a special flame retardant conformal coating
 - RoHS compliant / lead-free



- Applications:
- Kitchen appliances
 - Automotive devices
 - Televisions and radios
 - Computers
 - Power supplies

Electrical Specifications

| Type / Code | Power Rating (Watts) | Resistance Temperature Coefficient | Ohmic Range and Tolerance | |
|---------------------|----------------------|----------------------------------------------|---------------------------|--------------|
| | | | 5% | 10% |
| EL 4050 CEL 4050 | 2W 2.5W | ±800 ppm/°C below 1Ω ±400 ppm/°C above 1Ω | 0.2Ω - 100Ω | 0.2Ω - 100Ω |
| EL 4055 CEL 4055 | 2.2W 2.75W | ±800 ppm/°C below 1Ω ±400 ppm/°C above 1Ω | 0.2Ω - 130Ω | 0.2Ω - 130Ω |
| EL 4060 CEL 4060 | 2.4W 3W | ±800 ppm/°C below 1Ω ±400 ppm/°C above 1Ω | 0.22Ω - 180Ω | 0.22Ω - 180Ω |
| EL 4070 CEL 4070 | 2.8W 3.5W | ±800 ppm/°C below 1Ω ±400 ppm/°C above 1Ω | 0.26Ω - 215Ω | 0.26Ω - 215Ω |
| EL 4080 CEL 4080 | 3.2W 4W | ±800 ppm/°C below 1Ω ±400 ppm/°C above 1Ω | 0.32Ω - 255Ω | 0.32Ω - 255Ω |
| EL 4090 CEL 4090 | 3.6W 4.5W | ±800 ppm/°C below 1Ω ±400 ppm/°C above 1Ω | 0.36Ω - 270Ω | 0.36Ω - 270Ω |
| EL 4100 CEL 4100 | 4W 5W | ±800 ppm/°C below 1Ω ±400 ppm/°C above 1Ω | 0.4Ω - 300Ω | 0.4Ω - 300Ω |
| EL 4150 CEL 4150 | 6W 7.5W | ±800 ppm/°C below 1Ω ±400 ppm/°C above 1Ω | 0.66Ω - 400Ω | 0.66Ω - 400Ω |
| EL 4200 CEL 4200 | 8W 10W | ±800 ppm/°C below 1Ω ±400 ppm/°C above 1Ω | 0.9Ω - 500Ω | 0.9Ω - 500Ω |
| EL 4220 CEL 4220 | 8.8W 11W | ±800 ppm/°C below 1Ω ±400 ppm/°C above 1Ω | 1Ω - 600Ω | 1Ω - 600Ω |



| Mechanical Specifications | | | | |
|---------------------------|----------|----------|----------|----------|
| Dimensions (inches) | | | | |
| Type / Code | A | B | C | D |
| | (±0.031) | (±0.031) | (±0.031) | (±0.002) |
| EL 4050 | 0.5 | 0.562 | 0.14 | 0.036 |
| EL 4055 | 0.55 | 0.612 | 0.14 | 0.036 |
| EL 4060 | 0.6 | 0.662 | 0.14 | 0.036 |
| EL 4070 | 0.7 | 0.762 | 0.14 | 0.036 |
| EL 4080 | 0.8 | 0.862 | 0.14 | 0.036 |
| EL 4090 | 0.9 | 0.962 | 0.14 | 0.036 |
| EL 4100 | 1 | 1.062 | 0.14 | 0.036 |
| EL 4150 | 1.5 | 1.562 | 0.14 | 0.036 |
| EL 4200 | 2 | 2.062 | 0.14 | 0.036 |
| EL 4220 | 2.2 | 2.262 | 0.14 | 0.036 |
| CEL 4050 | 0.5 | 0.593 | 0.16 | 0.036 |
| CEL 4055 | 0.55 | 0.643 | 0.16 | 0.036 |
| CEL 4060 | 0.6 | 0.693 | 0.16 | 0.036 |
| CEL 4070 | 0.7 | 0.793 | 0.16 | 0.036 |
| CEL 4080 | 0.8 | 0.893 | 0.16 | 0.036 |
| CEL 4090 | 0.9 | 0.993 | 0.16 | 0.036 |
| CEL 4100 | 1 | 1.093 | 0.16 | 0.036 |
| CEL 4150 | 1.5 | 1.593 | 0.16 | 0.036 |
| CEL 4200 | 2 | 2.093 | 0.16 | 0.036 |
| CEL 4220 | 2.5 | 2.293 | 0.16 | 0.036 |

How to Order

| SEI Type | | Code | | Nominal Resistance | Tolerance | Packaging | | |
|-----------|-------------|-------------|----------|--------------------|-----------|------------|---------------|------|
| EL | | 4100 | | 1 | 5% | R | | |
| Type | Description | Code | Wattage | Tolerance | | Min. Order | Description | Code |
| EL | Uncoated | 4050 | 2/2.5 | 5% | | 25,000 | tape and reel | R |
| CEL | Coated | 4055 | 2.2/2.75 | 10% | | | | |
| | | 4060 | 2.4/3 | | | | | |
| | | 4070 | 2.8/3.5 | | | | | |
| | | 4080 | 3.2/4 | | | | | |
| | | 4090 | 3.6/4.5 | | | | | |
| | | 4100 | 4/5 | | | | | |
| | | 4150 | 6/7.5 | | | | | |
| | | 4200 | 8/10 | | | | | |
| | | 4220 | 8.8/11 | | | | | |

New part number format starting January 3rd, 2011:

How to Order

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
|----------------|----------|----------|--------------|----------|-----------|----------|-----------|-------------|---------------|-----------|---------------------------------------------------------------------------------------------------------|--------|
| E | L | 4 | 1 | 0 | 0 | J | T | 1 | R | 0 | 0 | |
| Product Series | | Size | Power Rating | | Tolerance | | Packaging | | | | Resistance Value | |
| EL | Uncoated | | EL | CEL | Code | Tol | Code | Description | Size | Quantity | Four characters with the multiplier used as the decimal holder. 0.4 ohm = R400 10 Kohm = 10K0 | |
| CEL | Coated | | 4050 | 2.0W | 2.5W | J | 5% | T | tape and reel | all sizes | | 25,000 |
| | | | 4055 | 2.2W | 2.75W | K | 10% | | | | | |
| | | | 4060 | 2.4W | 3.0W | | | | | | | |
| | | | 4070 | 2.8W | 3.5W | | | | | | | |
| | | | 4080 | 3.2W | 4.0W | | | | | | | |
| | | | 4090 | 3.6W | 4.5W | | | | | | | |
| | | 4100 | 4.0W | 5.0W | | | | | | | | |
| | | 4150 | 6.0W | 7.5W | | | | | | | | |
| | | 4200 | 8.0W | 10.0W | | | | | | | | |
| | | 4220 | 8.8W | 11.0W | | | | | | | | |