



Bondable Compensation Resistors

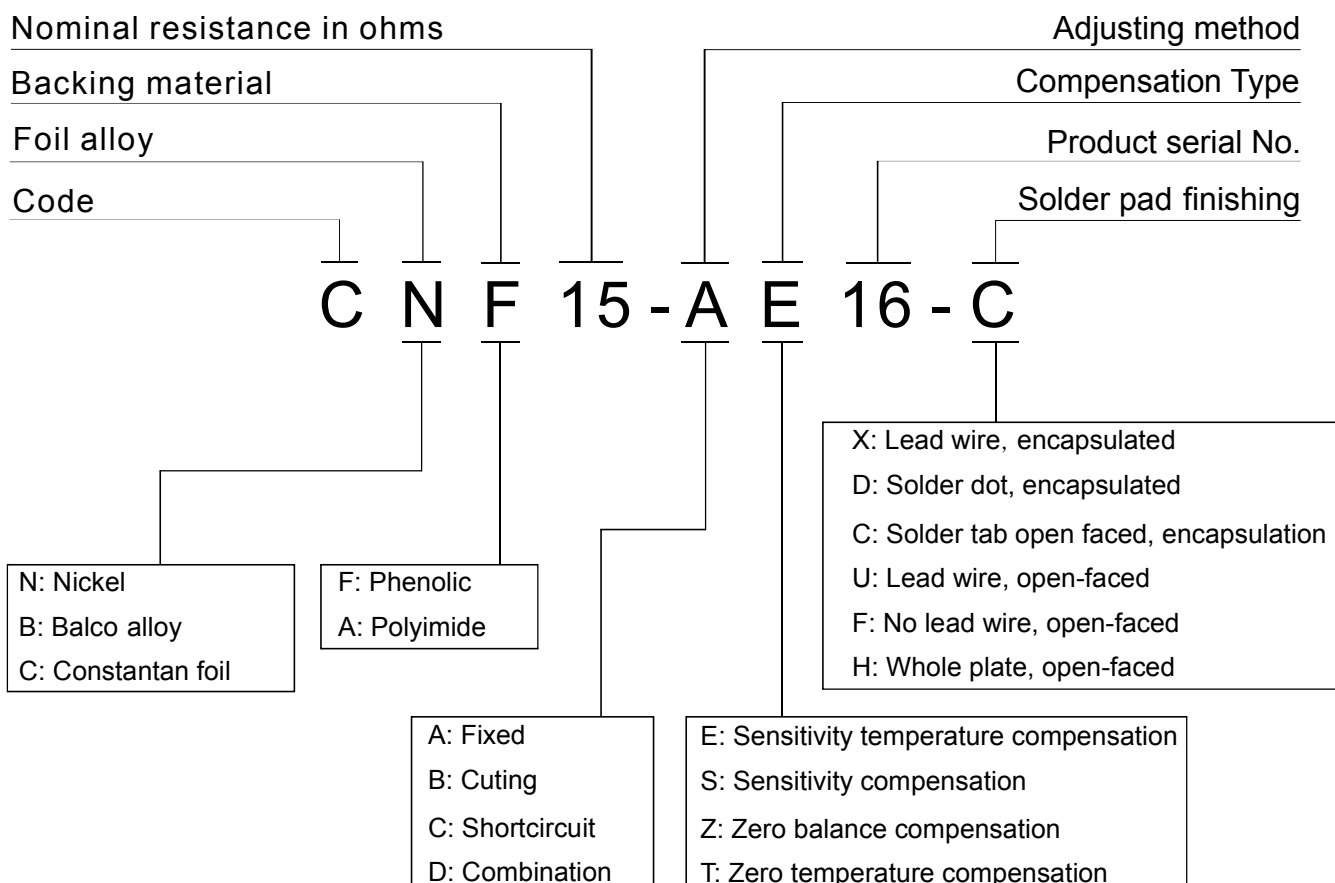


Introduction

High accuracy transducers not only need to choose high accuracy strain gauge but also need to proceed with series compensation and adjustment. Proza's C series bondable compensation resistor is one kind of bonded adjustable compensation resistor.

The compensation resistors are made from a number of metal foils versus backing materials. By using these resistors to improve transducer's technical parameters like output sensitivity, temperature changes of sensitivity, zero output, and temperature coefficient on zero etc. R series resistors are featured with easy bonding, convenient adjustment, having same temperature performance with spring element, as well as higher compensation precision.

Designation system for compensation resistors



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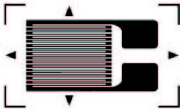
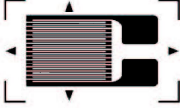


Bondable Compensation Resistors

Specifications

| Specifications | CNF series | CBF series | CCF series |
|--|------------------------------------|------------------------------------|---------------|
| Tolerance of average resistance value (23°C) | | $\leq \pm 0.5\%$ | |
| Temperature coefficient of resistance | $5.5 \times 10^3 / ^\circ\text{C}$ | $4.3 \times 10^3 / ^\circ\text{C}$ | not available |
| Operating temperature range (°C) | | -30 ~ +60 | |
| Adhesive | | P-600, P-610, P-602, 502 | |
| Solder pad finishing | | X,D,C,U,F,H | |

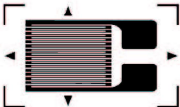



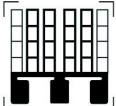


CNF, CBF, CCF series compensation resistor

| Gauge Type | Gauge Code | Nominal Resistance (Ω) | | Backing Dimensions LxM (mm) |
|---|--------------|---------------------------------|-----------|-----------------------------|
| | | Initial | Adjusted | |
|  | CNF5-AE12 | 5.0 | | 5.7 x 4.4 |
| | CNF9-AE05 | 9.0 | | 6.2 x 3.9 |
| | CNF13-AE45 | 13.0 | | 6.2 x 4.0 |
| | CNF15-AE16 | 15.0 | | 5.6 x 3.8 |
| | CNF16-AE57 | 16.0 | | 7.6 x 4.3 |
| | CNF18-AE06 | 18.0 | | 5.8 x 3.8 |
| | CNF20-AE07 | 20.0 | | 5.9 x 3.8 |
| | CNF22-AE07 | 22.0 | | 5.9 x 3.8 |
| | CNF24-AE66 | 24.0 | | 5.9 x 3.8 |
| | CNF26-AE08 | 26.0 | | 6.0 x 3.8 |
| | CNF30-AE09 | 30.0 | | 6.1 x 4.0 |
| | CNF32-AE14 | 32.0 | | 6.8 x 4.4 |
| | CNF35.5-AE10 | 35.5 | | 6.5 x 4.2 |
| | CNF40-AE11 | 40.0 | | 6.8 x 4.0 |
| | CNF50-AE22 | 50.0 | | 7.1 x 4.2 |
| | CNF54-AE28 | 54.0 | | 7.1 x 4.4 |
| | CNF60-AE23 | 60.0 | | 7.1 x 4.6 |
| | CNF65.4-AE25 | 65.4 | | 7.1 x 4.6 |
| | CNF70-AE25 | 70.0 | | 7.1 x 4.6 |
| | CNF81-AE13 | 81.0 | | 7.6 x 4.8 |
| CNF112-AE59 | 112.0 | | 8.0 x 8.0 | |
| CNF120-AE61 | 120.0 | | 6.5 x 3.9 | |
| CNF300-AE64 | 300.0 | | 8.6 x 5.3 | |
|  | CBF15-AE56 | 15.0 | | 3.0 x 2.0 |
| | CBF20-AE26 | 20.0 | | 6.2 x 3.6 |
| | CBF25-AE05 | 25.0 | | 6.2 x 3.9 |
| | CBF30-AE45 | 30.0 | | 6.2 x 4.0 |
| | CBF35-AE45 | 35.0 | | 6.2 x 4.0 |
| | CBF50-AE06 | 50.0 | | 5.8 x 3.8 |
| | CBF60-AE07 | 60.0 | | 5.9 x 3.8 |
| | CBF65-AE66 | 65.0 | | 5.9 x 3.8 |
| | CBF70-AE08 | 70.0 | | 6.0 x 3.8 |

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| Gauge Type | Gauge Code | Nominal Resistance (Ω) | | Backing Dimensions LxM (mm) |
|---|-------------|---------------------------------|----------|--------------------------------|
| | | Initial | Adjusted | |
|  | CBF81-AE14 | 81.0 | | 6.8 x 4.4 |
| | CBF90-AE14 | 90.0 | | 6.8 x 4.4 |
| | CBF96-AE10 | 96.0 | | 6.5 x 4.2 |
| | CBF100-AE11 | 100.0 | | 6.8 x 4.0 |
| | CBF130-AE22 | 130.0 | | 7.1 x 4.2 |
| | CBF150-AE23 | 150.0 | | 7.1 x 4.6 |
| | CBF180-AE25 | 180.0 | | 7.1 x 4.6 |
| | CBF200-AE58 | 200.0 | | 6.9 x 4.0 |
| | CBF200-AE13 | 200.0 | | 7.6 x 4.8 |
| | CBF234-AE13 | 234.0 | | 7.6 x 4.8 |
| | CBF330-AE74 | 330.0 | | 12.0 x 6.0 |
|  | CNF1-AT02 | 0.9 | | 8.5 x 5.4 |
| | CCF2-AZ01 | 2.0 | | 8.5 x 5.4 |
|  | CNF3-AT03 | 0.9 | | 11.5 x 5.0 |
| | CCF5-AZ04 | 5.0 | | 11.5 x 5.0 |
|  | CNF02-BT18 | 0.2 | 1.6 | 6.4 x 6.4 |
| | CCF05-BE17 | 1.3 | 10.0 | 6.4 x 6.4 |
|  | CCF1-BS24 | 2.0 | 42.5 | 8.4 x 8.4 |
| | CCF5-BS27 | 6.0 | 52.0 | 8.5 x 8.5 |
|  | CNF5-BE75 | 6.8 | 14.0 | 8.0 x 5.5 |
|  | CNF10-CT41 | 13.0 | 2.0 | 6.4 x 3.2 |
| | CCF70-CS41 | 75.0 | 6.3 | 6.4 x 3.2 |

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