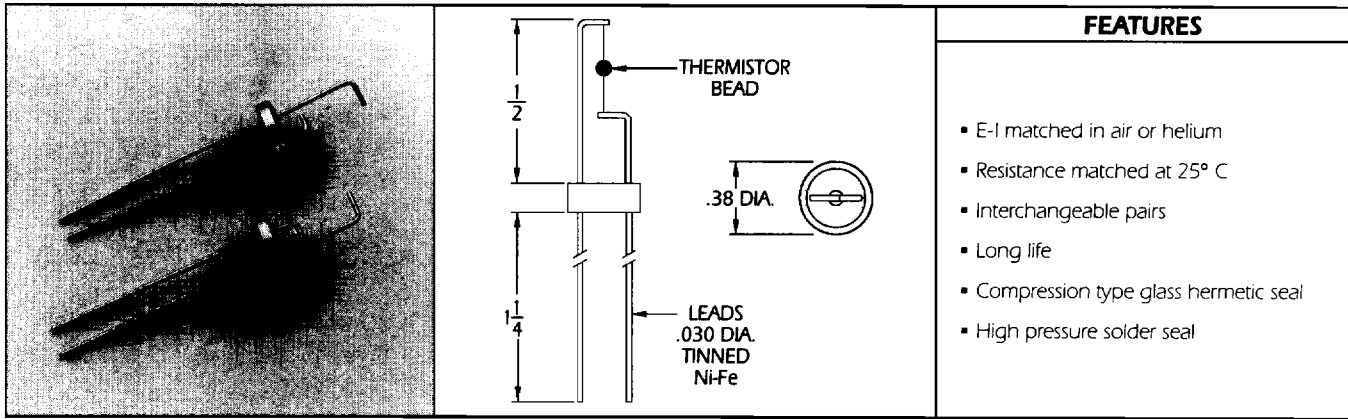




E-I MATCHED BEAD



All illustration dimensions are in inches.

FEATURES
<ul style="list-style-type: none"> <li>▪ E-I matched in air or helium</li> <li>▪ Resistance matched at 25° C</li> <li>▪ Interchangeable pairs</li> <li>▪ Long life</li> <li>▪ Compression type glass hermetic seal</li> <li>▪ High pressure solder seal</li> </ul>

**E-I MATCHED BEAD Thermistors** are designed for use in gas chromatography and other thermal conductivity gas analysis instruments. Each bead is mounted to a special hermetically sealed header. For maximum sensitivity, the higher resistance units should be used at higher ambient temperatures.

BEAD THERMISTOR ASSEMBLIES		
PART NUMBER	115-202CDK-801	115-802EJ1-801
	Two 111-202CAK-H01 each mounted on a glass hermetic seal and matched in air to within 15 millivolts of each other at 5, 10 and 15 milliamperes. Matched to 5 % Resis. at 25° C.	Two 111-802EAU-H01 each mounted on a glass hermetic seal and matched in helium to within 30, 25, 20 and 20 millivolts of each other at 2, 5, 10 and 15 milliamperes. Matched to 2 % Resis. at 25° C.
<b>CHARACTERISTICS</b>		
Resis. at 25° C	2000 Ohm ±25%	8000 Ohm ±20%
Resis. at 0° C (approx.)	4900 Ohm	23,200 Ohm
Resis. at 50° C (approx.)	890 Ohm	3,200 Ohm
Ratio of Resis. 0° C/50° C	4.95 to 6.95	6.56 to 7.99
Beta Nominal at 25° C	3000° K	3495K
Temp. Coeff. at 25° C	-3.4%/°C	-3.9%/°C
T.C. Still Air maximum	1 Second	1 Second
D.C. Still Air minimum	0.16 mW/° C	0.16 mW/° C
D.C. Helium	0.5 mW/° C	0.5 mW/° C
Power Rating (Air)	15 milliwatts	45 milliwatts
Power Rating (Helium)	60 milliwatts	140 milliwatts
Max. Ambient Temp.	100° C	250° C
Max. Operating Temp. (including self-heat)	150° C	300° C
Resis. at Max. Operating Temp.	88 Ohm	25 Ohm
Pair Matched Ro at 25° C	5%	2%
E-I Pair Matching	Still Air at 25° C to 15 millivolts at 5, 10 and 15 milliamps	Helium at 25° C to 30, 25, 20 and 20 millivolts at 2, 5, 10 and 15 milliamperes

