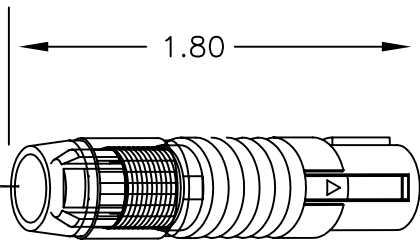
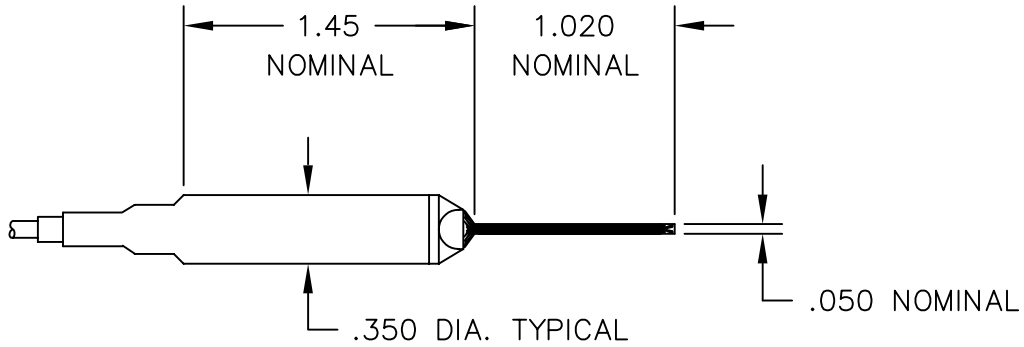
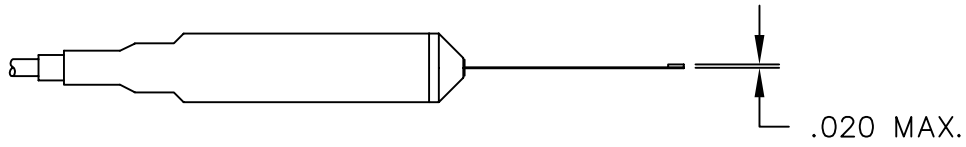


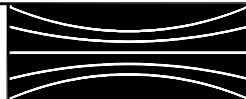
LTR	ECO	RELEASE DATE	BY
A	30235	11-03-2014	LNP



CABLE LENGTH 60±2 INCHES

UNLESS OTHERWISE
SPECIFIED:
DIMENSIONS IN INCHES
(DO NOT SCALE TO DWG)

THIS DRAWING IS THE PROPERTY OF
OECO/FW BELL AND MAY NOT BE
COPIED, USED OR DISCLOSED FOR ANY
PURPOSE EXCEPT AS AUTHORIZED IN
WRITING BY OECO/FW BELL



F.W. BELL

TITLE 5100 SERIES MINIATURE PROBE
SPECIFICATIONS (121050)

SCALE NONE

DRN 12-14-04 GG

DEC± —

APPD 12-14-04 GH

FRAC± —

QA
APPD 01-05-05 RMB

ANG± —

REL 01-06-05 LAL

SHT 1 OF 2

DWG NO. UA-6175

REV
A

1.0 GENERAL DESCRIPTION:

THE 5100 SERIES MINIATURE PROBES ARE SOLID STATE MAGNETIC FIELD SENSORS DESIGNED FOR USE WITH F.W. BELL MODEL 5100 SERIES GAUSSMETERS TO PROVIDE STABLE AND REPEATABLE MAGNETIC FIELD MEASUREMENTS.

2.0 ELECTRICAL SPECIFICATIONS:

MODEL	ITEM NUMBER	STEM MATERIAL	LINEARITY * % of Reading (corrected)	FREQUENCY RANGE	ACTIVE AREA DIA.	TEMP. RANGE	TEMPERATURE STABILITY	
							ZERO (TYP)	SENSITIVITY (TYP)
STB1X-0201	121050	KAPTON	1% TO 10kG 1.5%, 10 to 20kG	DC ONLY**	0.025"	0°C to 75°C	±0.2 GAUSS/°C	-0.1%/°C

* Extended range at 2% Linearity to 30kG when used with model 5180 gaussmeter.

**Inductive pickup of leadstrip limits high frequency accuracy. Typical +3dB point = 2500Hz with 0.5" at tip of probe exposed to AC magnetic field. Exposing more of the leadstrip or probe body to field will increase error.

3.0 CALIBRATION:

- 3.1 CALIBRATION IS REFERENCED TO LABORATORY STANDARDS TRACEABLE TO NIST OR OTHER NATURAL PHYSICAL CONSTANTS.
- 3.2 PROBES ARE CALIBRATED TO INDICATED ACCURACY OVER SPECIFIED GAUSS RANGE. USE BEYOND THESE RANGES WILL SHOW LINEARITY ERRORS GREATER THAN THE SPECIFICATIONS.
- 3.3 GAUSSMETER ERRORS MUST BE ADDED TO PROBE LINEARITY ERRORS TO OBTAIN OVERALL MEASURING ACCURACY.

4.0 WEIGHT:

- 4.1 NET: 30 GRAMS (APPROX.)