

.309

DYTRAN
USA
3225E2
XXXX

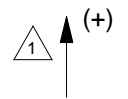
MODEL 6003A03 CABLE,
LENGTH, 3 FT. (INCLUDED)

4

KNURLED CABLE NUT. TIGHTEN ONLY
BY HAND. DO NOT USE PLIERS TO
TIGHTEN. TO INSTALL, DO NOT ROTATE
ACCELEROMETER INTO CABLE END
BUT RATHER ROTATE CABLE NUT.

.46

.192



COAXIAL CONNECTOR, DYTRAN SPECIAL
3-56 THREAD. MATES ONLY WITH MODEL 6003AXX CABLE

Ø .350

MOUNTING SURFACE
ADHESIVE MOUNT WITH CYANOACRYLATE
ADHESIVE OR DYTRAN MOUNTING WAX -
MODEL 6273



ACTUAL SIZE

- 4. ISOLATOR CUP: ANODIZED ALUMINUM.
- 3. CASE AND CONNECTOR MATERIAL: TITANIUM.
- 2. WEIGHT LESS CABLE: 1 GRAM.
- 1. ARROW INDICATES SENSE AND DIRECTION OF INPUT ACCELERATION FOR POSITIVE GOING OUTPUT SIGNAL.

EXCEPT AS OTHERWISE NOTED	
ALL DIMENSIONS IN INCHES TOLERANCE: .XXX = ± .XX = ±	
SURFACE FINISH EXCEPT AS NOTED	✓
BREAK EDGES TO DEBURR RADIUS OR CHAMFER	
THESE DIAS TO T.I.R.	
FILLETS -	MAX RAD.

		CHATSORTH, CA.			
		SCALE 5X	REV -	DATE -	ECN -
DATE 4/14/05	PART NO.				
DRAWN R.A.	CHECKED P.L.	MAT'L			
APPROVED	NEXT ASSEMBLY		USED ON		
TITLE			DWG NO.		
OUTLINE/INSTALLATION DRAWING, MODEL 3225E2			127-3225E2		
			SHEET 1 OF 1		



SPECIFICATIONS

MODEL 3225E2 MINIATURE CHARGE MODE ACCELEROMETER

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT	0.6	GRAMS
SIZE (DIA x LENGTH HEX x HEIGHT)	0.31 x 0.46 x .19	INCHES
MOUNTING PROVISION	FLAT MOUNTING SURFACE FOR ADHESIVE MOUNT	
CONNECTOR, RADially MOUNTED [1]	3-56	JACK
CASE MATERIAL	TITANIUM	
SENSING ELEMENT TYPE	PIEZOCERAMIC PLANAR SHEAR	
PERFORMANCE		
SENSITIVITY [2] [3]	>1.6	pC/G
RANGE F.S.	±250	G's
FREQUENCY RESPONSE, ± 10 % [3]	to 10,000	Hz
MOUNTED RESONANT FREQUENCY, NOM.	40	kHz
AMPLITUDE NON-LINEARITY (ZERO BASED BEST-FIT ST.LINE METHOD)	2.0	% F.S., MAX.
TRANSVERSE SENSITIVITY, MAX.	5	PERCENT
STRAIN SENSITIVITY	.0005	G's PER MICROSTRAIN @ 250/μ
ENVIRONMENTAL		
MAXIMUM VIBRATION	400	G's, RMS
MAXIMUM SHOCK	5000	G's, PEAK
TEMPERATURE RANGE	-60 TO 350	°F
THERMAL COEFFICIENT OF SENSITIVITY	SEE GRAPH THIS PAGE	
ENVIRONMENTAL SEAL	HERMETIC	
ELECTRICAL		
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP CASE GROUNDING	GROUND ISOLATED	Positive

SUPPLIED ACCESSORIES: (1) Model 6591 removal tool.

NOTES:

- [1] CONNECTOR MATES ONLY WITH DYTRAN CABLE MODEL 6003AXX. (XX IS LENGTH IN FEET)
- [2] MEASURED AT 100 Hz, 1 G RMS PER ISA RP37.2.
- [3] ACTUAL SENSITIVITY IS GIVEN ON A CALIBRATION CERTIFICATE TRACEABLE TO **NIST**, SUPPLIED WITH EACH INSTRUMENT. LOW FREQUENCY RESPONSE IS DEPENDENT UPON THE DISCHARGE TIME CONSTANT OF THE CHARGE AMPLIFIER.

TYPICAL THERMAL SENSITIVITY GRAPH

