

Model Number DOC NO PERFORMANCE SPECIFICATION 3316C PS3316C SINGLE AXIS CHARGE MODE ACCELEROMETER REV H, ECN 14095, 03/14/18



- MINIATURE SIZE
- HERMETICALLY SEALED
- HIGH TEMPERATURE OPERATION

		ENGLISH		SI	
PHYSICAL	_		,		
Weight, Max		0.21	oz	6.0	grams
Size	Square x Height	.40 x .36	Inches	10.16 x 9.10	mm
Connector [3]	Туре	10-32 Coaxial		10-32 Coaxial	
Mounting Provision : Tap	pped Hole	5-40 UNC-2B		5-40 UNC-2B	
Material	Housing	Alloy 600		Alloy 600	
	Connector	Alloy X-750		Alloy X-750	
Element Style	Material	Single Crystal		Single Crystal	
1	Туре	Planar Shear		Planar Shear	

PERFORMANCE Concitivity [1]

Sensitivity [1]
Range F.S for ± 5 Volts Output
Frequency Range, ±10%
Resonant Frequency
Capacitance
Linearity [2]
Phase Response (±5°)
Maximum Transverse Sensitivity
Strain Sensitivity, Max
Insulation resistance, (Connector pin to case)

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ENVIRONMENTAL

Coefficient of Thermal Sensitivity

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	Maximum Vibration
	Maximum Shock
	Temperature Range
	Seal
	Radiation Exposure Limit (Integrated Neutron Flux)
	Radiation Exposure Limit (Integrated Gamma Flux)

	_	
1 to 2	pC/g	0.10 to 0.20
[9]	G's	[9]
[4] to 10000	Hz	[4] to 10000
> 45	kHz	> 45
120	pF	120
± 1%	% F.S.	± 1%
[4] to 3000	Hz	[4] to 3000
5	%	5
0.003	g/με	0.03
at 75 °F > 5	ΜΩ	at 75 °F > 5
at 900 °F > 0.25	ΜΩ	at 900 °F > 0.2
0.02	%F	0.02
Case Ground		Case Ground

±6000	G, peak
±10000	G, peak
-60 to+900	°F
Hermetic	
1.0E+10	N/cm ²
1.0E+08	rad

0.10 to 0.20	po/iii/s
[9]	m/s ²
[4] to 10000	Hz
> 45	kHz
120	pF
± 1%	% F.S.
[4] to 3000	Hz
5	%
0.03	m/s²/με
at 75 °F > 5	ΜΩ
at 900 °F > 0.25	ΜΩ
0.02	%F
Case Ground	1
	-

pC/m/s²

±5886	m/s2, peak
±49050	m/s², peak
-51 to+482	°C
Hermetic	
1.0E+10	N/cm ²
1.0E+08	rad
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This family also includes:

Model	Sensitivity (pC/g)	Output Polarity	Temperature (°F)
3316C1	1 to 2	Negative when mounted on its base	-60 to+900

Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6584 mounting stud (5-40 to 10-32), qty 1

Notes:

- [1] Measured at 100Hz, 1 Grms per ISA RP 37.2
- [2] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [3] Mates with Dytran cable 6946AXX hardline cable and 6979AXX hardline insulated cable.
- [4] Low frequency response and phase response are a function of the discharge time constant of the charge amplifier used. See graph below for example.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.
- [6] Recommended charge amplifier: Dytran model 4754B, Series.
- [7] Isolation mounting base model 6959 (triaxial) and 6998 (uniaxial) are available.
- [8] U.S. Patent number US 8,375,793 B2 applies to this unit.
- [9] This parameter depends on the gain settings of the charge amplifier used.



