

MULTI-AXIS ICP® ACCELEROMETERS



LOW-COST TRIAXIAL ICP® ACCELEROMETER

604-Series



ACCELEROMETER WITH MIL CONNECTOR

MODEL (EX)604B31

- Most economical triaxial accelerometer in the IMI product line
- Hazardous area approved version available





SPECIFICATIONS	
Performance	
Sensitivity (±20%)	100 mV/g 10.2 mV/(m/s ²)
Measurement Range	±50 g ±490 m/s²
Frequency Range (±3 dB)	0.5 to 5000 Hz
Resonant Frequency	10 kHz
Broadband Resolution (1 to 10000 Hz)	350 µg 3434 µm/s²
Non-Linearity	±1%
Transverse Sensitivity	≤5%
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s² pk
Temperature Range	-65 to +250 °F -54 to +121 °C
Hazardous Area Approval	CSA, ATEX, IECEx (EX only)
Enclosure Rating	IP68
Electrical	
Settling Time	≤2.0 sec
Discharge Time Constant	≥0.3 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 20 mA
Output Impedance	<150 Ohm
Output Bias Voltage	8 to 12 VDC
Spectral Noise (10 Hz)	8.0 µg√Hz
Spectral Noise (100 Hz)	5.0 µg√Hz
Spectral Noise (1 kHz)	4.0 μg√Hz
Electrical Isolation (Case)	>10 ⁸ Ohm
Physical	
Sensing Element	Ceramic
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Mounting	1/4-28 Male
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 N-m
Electrical Connector	4-Pin Bayonet
Electrical Connector Position	Side
Weight	4.4 oz 124 g
Accessories	~
Model 081A68: Mounting bolt, 1/4-28	x .90"





ACCELEROMETER WITH M12 CONNECTOR MODEL (EX)604B91



#1.38(#35.1)



ACCELEROMETER WITH INTEGRAL POLYURETHANE CABLE

MODEL (EX)604B11

Configurable cable length and terminating connector



ACCELEROMETER WITH INTEGRAL ARMORED POLYURETHANE CABLE MODEL 604B61

Configurable cable length, armor length and terminating connector





LOW-COST BIAXIAL ICP® ACCELEROMETER

605-Series



ACCELEROMETER WITH MIL CONNECTOR MODEL 605B01

- Take measurements on two axes simultaneously
- Ideal for route-based predictive maintenance with a two channel data collector





SPECIFICATIONS		
Performance		
Sensitivity (±20 %)	100 mV/g 10.2 mV/(m/s²)	
Measurement Range	±50 g ±490 m/s²	
Frequency Range (±3 dB)	.5 to 5000 Hz	
Resonant Frequency	10 kHz	
Broadband Resolution (1 to 1000 Hz)	350 μg 3434 μm/s²	
Non-Linearity	±1 %	
Transverse Sensitivity	≤5 %	
Environmental		
Overload Limit (Shock)	5000 g pk 49050 m/s² pk	
Temperature Range	-65 to +250 °F -54 to +121 °C	
Enclosure Rating	IP68	
Electrical	1	
Settling Time (within 1% of bias)	≤2.0 sec	
Discharge Time Constant	≥0.3 sec	
Excitation Voltage	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	
Output Impedance	<150 Ohm	
Output Bias Voltage	8 to 12 VDC	
Spectral Noise (10 Hz)	8 µg/√Hz	
Spectral Noise (100 Hz)	5 µg/√Hz	
Spectral Noise (1 kHz)	4 μg/√Hz	
Electrical Isolation (Case)	>10 ⁸ Ohm	
Physical		
Sensing Element	Ceramic	
Sensing Geometry	Shear	
Housing Material	Stainless Steel	
Sealing	Welded Hermetic	
Mounting	1/4-28 Male	
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 Nm	
Electrical Connector	3-Pin MIL-C-5015	
Electrical Connection Position	Side	
Weight	3.9 oz 111 g	
Accessories		
Model 081A68: Mounting bolt, 1/4-28 x .90"		



ACCELEROMETER WITH M12 CONNECTOR MODEL 605B91









ACCELEROMETER WITH INTEGRAL POLYURETHANE CABLE

MODEL 605B11

• Configurable cable length and terminating connector









ACCELEROMETER WITH INTEGRAL ARMORED POLYURETHANE CABLE MODEL 605B61

• Configurable cable length, armor length and terminating connector

PRECISION TRIAXIAL ICP® ACCELEROMETER

629-Series



ACCELEROMETER WITH MIL CONNECTOR MODEL 629A31

- Full frequency sweep calibration on all three axes
- Tight sensitivity tolerance for applications requiring highly precise measurements



SPECIFICATIONS		
Performance		
Sensitivity (±5 %)	100 mV/g 10.2 mV/(m/s²)	
Measurement Range	±50 g ±490 m/s²	
Frequency Range (±5 %)	2.4 to 2000 Hz	
Frequency Range (±10 %)	1.7 to 5000 Hz	
Frequency Range (±3dB)	0.8 to 8000 Hz	
Resonant Frequency	20 kHz	
Broadband Resolution (1 to 10000 Hz)	100 µg 981 µm/sec²	
Non-Linearity	±1 %	
Transverse Sensitivity	≤5 %	
Environmental		
Overload Limit (Shock)	5000 g pk 49050 m/s² pk	
Temperature Range	-65 to +250 °F -54 to +121 ℃	
Enclosure Rating	IP68	
Electrical		
Settling Time	≤3.0 sec	
Discharge Time Constant	≥0.2 sec	
Excitation Voltage	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	
Output Impedance	<100 Ohm	
Output Bias Voltage	8 to 12 VDC	
Spectral Noise (10 Hz)	7.0 μg/√Hz	
Spectral Noise (100 Hz)	2.8 μg/√Hz	
Spectral Noise (1 kHz)	1.0 μg/√Hz	
Electrical Isolation (Case)	≥10 ⁸ Ohm	
Physical		
Sensing Element	Ceramic	
Sensing Geometry	Shear	
Housing Material	Stainless Steel	
Sealing	Welded Hermetic	
Mounting	1/4-28 Male	
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 Nm	
Electrical Connector	4-Pin Bayonet	
Electrical Connector Position	Side	
Weight	4.9 oz 139 g	
Accessories		
Model 081A56: Mounting bolt, 1/4-28 x .75"		





ACCELEROMETER WITH INTEGRAL POLYURETHANE CABLE MODEL 629A11

• Configurable cable length and terminating connector



ACCELEROMETER WITH INTEGRAL ARMORED POLYURETHANE CABLE MODEL 629A61

Configurable cable length, armor length and terminating connector



PRECISION TRIAXIAL ICP® ACCELEROMETER

EX629-Series



ACCELEROMETER WITH INTEGRAL COILED CABLE

MODEL EX629A11A

- Ideal for route-based measurements with integral coiled cable and locator pin
- Available with configurable terminating connector



SPECIFICATIONS		
Performance		
Sensitivity (±10 %)	100 mV/g	
	10.2 mV/(m/s ²)	
Measurement Range	±50 g ±490 m/s²	
	2 to 7000 Hz (X & Y)	
Frequency Range (±3 uB)	2 to 10000 Hz (Z)	
Resonant Frequency	17 kHz	
Broadband Resolution	560 μg	
Non-Linearity	±1%	
Transverse Sensitivity	<7%	
Environmental	2170	
	5000 g pk	
Overload Limit (Shock)	49050 m/s ² pk	
Temperature Bange	-40 to +176 F	
	-40 to +80 C	
Hazardous Area Approval		
Electrical	IP08	
Discharge Time Constant	<2.0 000	
Setting Time	20.1 Sec 18 to 28 VDC	
	2 to 20 mA	
	<350 Ohms	
Output Rias Voltage	8 to 12 VDC	
Spectral Noise (10 Hz)	40 µg√Hz	
Spectral Noise (100 Hz)	10 µg√Hz	
Spectral Noise (1 kHz)	6 µa√Hz	
Electrical Isolation (Case)	>10 ⁸ Ohm	
Physical		
Sensing Element	Ceramic	
Sensing Geometry	Shear	
Housing Material	Stainless Steel	
Sealing	Welded Hermetic	
Mounting Thread	10-32 Male	
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 N-m	
Electrical Connector	Integral Coiled Cable	
Electrical Connector Position	Тор	
Weight	3.9 oz 110α	
Accessories		
Model 081A126: Mounting bolt, 10-32 x	93"	

PRECISION TRIAXIAL ICP®ACCELEROMETER

630-Series



ACCELEROMETER WITH M12 CONNECTOR MODEL 630A91

- MUDEL 630A91
- Small footprint ideal for installation in tight spaces
- Top exit connector eliminates concerns about cable bend radius



PerformanceSensitivity (± 10%)100 mV/g 10.2 mV/(m/s²)Measurement Range±50 g ±490 m/s²Frequency Range- X & Y (±3 dB)2 to 7000 HzFrequency Range- Z (±3 dB)2 to 10000 HzResonant Frequency17 kHzBroadband Resolution560 µg (1 to 10,000 Hz)(1 to 10,000 Hz)5,694 µm/s²Non-Linearity±1%Transverse Sensitivity≤7%Environmental5000 g pk 49050 m/s² pkOverload Limit (Shock)5000 g pk 49050 m/s² pkTemperature Range (Unapproved Version)-65 to +250 °F -54 to +121 °CHazardous Area ApprovalATEX, CSA (EX only)Enclosure RatingIP68ElectricalSettling Time≤3.0 secDischarge Time Constant≥0.1 secExcitation Voltage8 to 12 VDCConstant Current Excitation2 to 20 mAOutput Impedance<350 OhmOutput Bias Voltage8 to 12 VDCSpectral Noise (10 Hz)10.0 µg/HzSpectral Noise (100 Hz)10.0 µg/HzSpectral Noise (100 Hz)10.0 µg/HzElectrical Isolation (Case)>10° OhmPhysicalShearSensing ElementCeramicSensing ElementCeramicSensing GeometryShearHousing MaterialStainless Stael	
Sensitivity (\pm 10%)100 mV/g 10.2 mV/(m/s²)Measurement Range $\pm 50 \text{ g}$ $\pm 490 \text{ m/s²}$ Frequency Range- X & Y (\pm 3 dB)2 to 7000 HzFrequency Range- Z (\pm 3 dB)2 to 10000 HzResonant Frequency17 kHzBroadband Resolution560 µg (1 to 10,000 Hz)(1 to 10,000 Hz)5,694 µm/s²Non-Linearity $\pm 1\%$ Transverse Sensitivity $\leq 7\%$ Environmental 0 Overload Limit (Shock) 5000 g pk $49050 m/s² pk$ Temperature Range (Unapproved Version) $-65 \text{ to } +250 \text{ °F}$ (Unapproved Version)Enclosure RatingIP68Electrical 20.0 sec Settling Time $\leq 3.0 \text{ sec}$ Discharge Time Constant $\geq 0.1 \text{ sec}$ Excitation Voltage18 to 28 VDCConstant Current Excitation2 to 20 mAOutput Impedance $<350 \text{ ohm}$ Output Bias Voltage8 to 12 VDCSpectral Noise (10 Hz) $10.0 \mu g\sqrt{Hz}$ Spectral Noise (100 Hz) $0.0 \mu g\sqrt{Hz}$ Spectral Noise (100 Hz) $0.0 \mu g\sqrt{Hz}$ Spectral Noise (100 Hz) $5.00 \mu g\sqrt{Hz}$ Electrical Isolation (Case) $>10^8 \text{ Ohm}$ PhysicalSteaning ElementSensing ElementCeramicSensing ElementCeramicSensing GeometryShearHousing MaterialStainlese Steal	
Measurement Range $\pm 50 \text{ g} \\ \pm 490 \text{ m/s}^2$ Frequency Range- X & Y (\pm 3 dB)2 to 7000 HzFrequency Range- Z (\pm 3 dB)2 to 10000 HzResonant Frequency17 kHzBroadband Resolution560 µg(1 to 10,000 Hz)5,694 µm/s²Non-Linearity \pm 1%Transverse Sensitivity \leq 7%Environmental0verload Limit (Shock)Overload Limit (Shock)5000 g pk49050 m/s² pkTemperature Range-65 to +250 °F(Unapproved Version)-54 to +121 °CHazardous Area ApprovalATEX, CSA (EX only)Enclosure RatingIP68Electrical2 to 20 mAOutput Impedance<350 ohm	
Frequency Range- X & Y (\pm 3 dB)2 to 7000 HzFrequency Range- Z (\pm 3 dB)2 to 10000 HzResonant Frequency17 kHzBroadband Resolution560 µg(1 to 10,000 Hz)5,694 µm/s²Non-Linearity \pm 1%Transverse Sensitivity \leq 7%Environmental0verload Limit (Shock)Øverload Limit (Shock) 5000 g pk49050 m/s² pkTemperature Range-65 to +250 °F(Unapproved Version)-54 to +121 °CHazardous Area ApprovalATEX, CSA (EX only)Enclosure RatingIP68Electrical20.1 secSettling Time \leq 3.0 secDischarge Time Constant \geq 0.1 secExcitation Voltage8 to 12 VDCOutput Impedance <350 OhmOutput Bias Voltage8 to 12 VDCSpectral Noise (10 Hz)10.0 µg/HzSpectral Noise (100 Hz)10.0 µg/HzElectrical Isolation (Case)>10° OhmPhysicalSensing ElementSensing ElementCeramicSensing ElementCeramicSensing GeometryShearHousinn MaterialStainlese Steel	
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Non-Linearity ±1% Transverse Sensitivity ≤7% Environmental 5000 g pk Overload Limit (Shock) 49050 m/s² pk Temperature Range -65 to +250 °F (Unapproved Version) -54 to +121 °C Hazardous Area Approval ATEX, CSA (EX only) Enclosure Rating IP68 Electrical ≤0.1 sec Settling Time ≤3.0 sec Discharge Time Constant ≥0.1 sec Excitation Voltage 18 to 28 VDC Constant Current Excitation 2 to 20 mA Output Impedance <350 0hm	
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Temperature Range (Unapproved Version) -65 to +250 °F -54 to +121 °C Hazardous Area Approval ATEX, CSA (EX only) Enclosure Rating IP68 Electrical Settling Time ≤3.0 sec Discharge Time Constant ≥0.1 sec Excitation Voltage 18 to 28 VDC Constant Current Excitation 2 to 20 mA Output Impedance <350 0hm	
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Excitation Voltage 18 to 28 VDC Constant Current Excitation 2 to 20 mA Output Impedance <350 0hm	
Constant Current Excitation 2 to 20 mA Output Impedance <350 0hm	
Output Impedance <350 0hm	
Output Bias Voltage 8 to 12 VDC Spectral Noise (10 Hz) 40.0 µg√Hz Spectral Noise (100 Hz) 10.0 µg√Hz Spectral Noise (1 kHz) 6.0 µg√Hz Electrical Isolation (Case) >10° 0hm Physical Sensing Element Sensing Geometry Shear Housing Material Stainlase Steel	
Spectral Noise (10 Hz) 40.0 µg√Hz Spectral Noise (100 Hz) 10.0 µg√Hz Spectral Noise (1 kHz) 6.0 µg√Hz Electrical Isolation (Case) >10 ⁸ 0hm Physical Sensing Element Sensing Geometry Shear Housing Material Stainlase Steel	
Spectral Noise (100 Hz) 10.0 µg√Hz Spectral Noise (1 kHz) 6.0 µg√Hz Electrical Isolation (Case) >10 ⁸ 0hm Physical Sensing Element Ceramic Sensing Geometry Shear Housing Material Stainlase Steel	
Spectral Noise (1 kHz) 6.0 μg√Hz Electrical Isolation (Case) >10 ⁸ Ohm Physical Sensing Element Ceramic Sensing Geometry Shear Housing Material Stainless Steel	
Electrical Isolation (Case) >10 ⁸ Ohm Physical Sensing Element Sensing Geometry Shear Housing Material Stainlose Steel	
Physical Sensing Element Ceramic Sensing Geometry Shear Housing Material Stainloss Steel	
Sensing Element Ceramic Sensing Geometry Shear Housing Material Stainloss Steel	
Sensing Geometry Shear Housing Material Stainless Steel	
Housing Material Stainless Steel	
Sealing Welded Hermetic	
Mounting 10-32 Male	
Mounting Torque 2 to 5 ft-lb 2.7 to 6.8 N-m	
Electrical Connector 4-pin M12	
Electrical Connector Position Top	
Weight 4.2 oz 119.7 g	
Accessories	
Model 081A126: Mounting bolt, 10-32 x .93"	

PRECISION TRIAXIAL ICP® ACCELEROMETER

639-Series



ACCELEROMETER WITH M12 CONNECTOR MODEL (EX)639A91

- Smallest, truly industrial triaxial ICP[®] accelerometer on the market
- High frequency response on all three axes ideal for gearbox and bearing fault detection





SPECIFICATIONS		
Performance		
Sensitivity (+10 %)	100 mV/g	
, , , , , , , , , , , , , , , , , , ,	10.2 mV/(m/s²)	
Measurement Range	±30 g ±490 m/s ²	
Frequency Range (±5 %)	1.5 to 5500 Hz	
Frequency Range (±3 dB)	0.5 to 13000 Hz	
Resonant Frequency	≥ 26 kHz	
Broadband Resolution (1 to 10,000 Hz)	300 µg 3000 µm/s²	
Non-Linearity	±1%	
Transverse Sensitivity	≤5%	
Environmental		
Overload Limit (Shock)	5000 g pk 49050 m/s² pk	
Temperature Range	-65 to +250 °F -54 to +121 °C	
Hazardous Area Approval	CSA (EX only)	
Enclosure Rating	IP68, IP69K	
Electrical		
Discharge Time Constant	≥0.32 sec	
Settling Time	≤2.0 sec	
Excitation Voltage	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	
Output Impedance	<150 Ohm	
Output Bias Voltage	8 to 12 VDC	
Spectral Noise (10 Hz)	20.0 µg√Hz	
Spectral Noise (100 Hz)	10.0 μg√Hz	
Spectral Noise (1 kHz)	3.0 µg√Hz	
Electrical Isolation (Case)	>10 ⁸ Ohm	
Physical		
Sensing Element	Ceramic	
Sensing Geometry	Shear	
Housing Material	Stainless Steel	
Sealing	Welded Hermetic	
Mounting Thread	1/4-28 Male	
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 N-m	
Electrical Connector	4-pin M12	
Electrical Connector Position	Side	
Weight	3.0 oz 85 g	
Accessories		
Model 081A119: Mounting holt 1/4-28 x 625"		





ACCELEROMETER WITH INTEGRAL POLYURETHANE CABLE MODEL 639A11

• Configurable cable length and terminating connector

CABLES



4 CONDUCTOR CABLE WITH BLACK POLYURETHANE JACKET MODEL 059

- Our most popular four conductor cable
- Ideal for use with biaxial or triaxial ICP[®] accelerometers and TO vibration transmitters
- Smooth jacket for easy pulling through conduit and cable trays



SPECIFICATIONS		
Performance		
Conductor Number	4	
Cable Style	Straight	
Cable Style	Multi-Conductor Twisted Shielded Bundle	
Environmental		
Temperature Range	-58 to +250 °F -50 to +121 °C	
Electrical		
Capacitance (Cond-to-Cond@70 F)	36 pF/ft 118 pF/m	
Physical		
Cable Diameter	0.25 in 6.35 mm	
Jacket Material	Polyurethane	
Jacket Color	Black	
Conductor Style	Stranded 19 Strands 32 AWG	
Conductor Material	Tin Plated Copper	
Conductor Diameter	0.04 in 1.02 mm	
Insulation Material	FEP	
Shield Type	Braid 90% Minimum Coverage	
Shield Material	Tin Plated Copper	
Drain Wire Material	No drain wire	
Bend Radius (Minimum)	2.50 in 63.50 mm	
Weight	0.75 oz/ft 69.59 g/m	

CABLES



4 CONDUCTOR ARMORED CABLE WITH BLACK POLYURETHANE JACKET MODEL 043

- Armored version of our most popular four-conductor cable
- Ideal for use with biaxial or triaxial ICP[®] accelerometers and TO vibration transmitters
- Armor protects cable from being cut or crushed



SPECIFICATIONS	
Performance	
Conductor Number	4
Cable Style	Straight Armored
Cable Style	Multi-Conductor Twisted Shielded Bundle
Environmental	
Temperature Range	-58 to +250 °F -50 to +121 °C
Electrical	
Capacitance (Cond-to-Cond@70 F)	36 pF/ft 118 pF/m
Physical	
Armor Diameter	0.41 in 10.41 mm
Armor Material	Stainless Steel
Cable Diameter	0.25 in 6.35 mm
Jacket Material	Polyurethane
Jacket Color	Black
Conductor Style	Stranded 19 Strands 32 AWG
Conductor Material	Tin Plated Copper
Conductor Diameter	0.04 in 1.02 mm
Insulation Material	FEP
Shield Type	Braid 90% Minimum Coverage
Shield Material	Tin Plated Copper
Drain Wire Material	No drain wire
Bend Radius (Minimum)	4.10 in 104.14 mm
Weight	1.69 oz/ft 157.15 g/m

CABLES



4 CONDUCTOR CABLE WITH ORANGE FEP JACKET MODEL 057

- Ideal for use with triaxial ICP[®] accelerometers and TO vibration transmitters
- Ideal for use in high temperature or corrosive environments.
- Smooth jacket for easy pulling through conduit and cable trays



SPECIFICATIONS		
Performance		
Conductor Number	4	
Cable Style	Straight	
Cable Style	Multi-Conductor Twisted Shielded Bundle	
Environmental		
Temperature Range	-85 to +392 °F -65 to +200 °C	
Electrical		
Capacitance	24 pF/ft 79 pF/m	
Physical		
Cable Diameter	0.19 in 4.83 mm	
Jacket Material	FEP	
Jacket Color	Orange	
Conductor Style	Stranded 19 Strands 32 AWG	
Conductor Material	Tin Plated Copper	
Conductor Diameter	0.03 in 0.76 mm	
Insulation Material	FEP	
Shield Type	Braid 85% Minimum Coverage	
Shield Material	Tin Plated Copper	
Drain Wire Material	No drain wire	
Bend Radius (Minimum)	1.90 in 48.26 mm	
Weight	0.52 oz/ft 48.16 g/m	

CONNECTORS



4 SOCKET M12 CONNECTOR WITH COLLAR RING *Use with Single Axis Accelerometers & Transmitters* MODEL PZ



5 SOCKET M12 CONNECTOR WITH COLLAR RING Use with Triaxial Accelerometers MODEL QH



4 SOCKET ALUMINUM CONNECTOR *Use with Triaxial Accelerometers* MODEL DR

SPECIFICATIONS		
Performance		
Connector Style	M12	
Connector Style	Multi-conductor	
Connection Type	4 socket	
Coupling Method	Threaded	
Strain Relief	Molded Boot	
Environmental		
Temperature Range	-40 to +221 °F -40 to +105 °C	
Physical		
Material	Polyester (Connector) Stainless Steel (Collar Ring)	
Weight	0.31 oz 8.80 g	

SPECIFICATIONS		
Performance		
Connector Style	M12	
Connector Style	Multi-conductor	
Connection Type	5 socket	
Coupling Method	Threaded	
Strain Relief	Molded Boot	
Environmental		
Temperature Range	-40 to +221 °F -40 to +105 °C	
Physical		
Material	Polyester (Connector) Stainless Steel (Collar Ring)	
Weight	0.31 oz 8.80 g	

SPECIFICATIONS	
Performance	
Connector Style	MS3116 MIL-C-26482
Connector Style	Multi-conductor
Connection Type	4 socket
Coupling Method	Bayonet
Strain Relief	Clamp Nut
Environmental	
Temperature Range	-67 to +257 °F -55 to +125 °C
Physical	
Material	Cadmium-Coated Aluminum
Weight	0.60 oz 17.01 g





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