

Benthowaye Instrument Inc.

Underwater Sound Solutions http://www.benthowave.com

Transducer Specification

Part Number: Bill-2006/18 Signal Type: Pulsed SINE, Chirp, PSK, PSK, etc.; Pulsed Square Waveform Signal Type: Pulsed SINE, Chirp, PSK, PSK, etc.; Pulsed Square Waveform Quality Factor: 5 Trammitting Voltage Response: 155.3 dB µa/V@1m @ fs Trammitting Voltage Response: 155.3 dB µa/V@1m @ fs Side Lobe Level: 5.7.7 (dB) Free Capacitance: 21.6 n F @ Mitty Dissipation: 0.005 @ 114t Admittance or Impedance: 660 Watts, Maximum Input Pulse Power. MIPP: 660 Watts, Maximum Input Pulse Power. MIPP: 280 Seconds, Maximum Pulse Woth MCIP: 46 Watts, Maximum Continuous Input Power. Admittance or Impedance: 660 Watts, Maximum Input Pulse Power. Admittance or Long admitty is limited by the cable length without a suitable underwater sealing part. Cable: 1. Two Conductor Shielded Cable (S) As 0 K GSS Coax (RGSS MISC) Note: Underwater Mateable Connector (UMC) Cable Length: 1. DeFault: Wire Leads (WI) 2. Usotom 2. Usotom So D B NC GAR (GSS MISC) Scuttare So D B NC Male (BNC) Scuttare Scutad mouthing (EfMa)<		Transduc	er Specification			
Resonant Frequency fs: 18 kHz Quality Factor: 5 Transmitting Voltage Response: 155.3 dB µPa/V@1m @ fs Free-field Voltage Sensitivity: -192.0 dB V/µPa @ fs. -3dB Beam Nidth: 32" Beam Pattern: Conical Side Lobe Level: < 1.7.7 (dB)	Part Number:	BII-7506/18				
Quality Factor: 5 Transmitting Voltage Response: 155.3 dB µPa/V@1m @ fs Free-field Voltage Sensitivity: -192.0 dB V/µPa @ fs. -3dB Beam Width: 32* Beam Pattern: Conical Side Lobe Level: < 1-17.7 (dB)	Signal Type:					
Transmitting Voltage Response: 192.0 dB V/µPa @ fs. -3dB Beam Vidth: 32* -3dB Beam Vidth: 32* Beam Pattern: Conical Side Lobe Level: < -17.7 (dB)	Resonant Frequency fs:	18 kHz				
Transmitting Voltage Response: 192.0 dB V/µPa @ fs. -3dB Beam Vidth: 32* -3dB Beam Vidth: 32* Beam Pattern: Conical Side Lobe Level: < -17.7 (dB)	Quality Factor:	5				
3d8 Beam Width: 32' Beam Pattern: Conical Side Lobe Level: 5-17.7 (db) Free Capacitance: 21.6 n F @ 1kHz Dissipation: 0.005 @ 1kHz Admittance or Impedance: 6-18.8 m,S B=1.9 m S @ fs MIPP: 660 Watts, Maximum Input Pulse Power. MIPP: 280 Seconds, Maximum Pulse Width MCIP: 46 Watts, Maximum Continuous Input Power. 1. Two Conductor Shielded Cable (SC) 2.50 Ω RGS8 Caax (RGS8) Note: Operating depth is limited by the cable length without a suitable underwater sealing part. Cable Length: 1. Default: Im 2. Guotant: Im 2. Guotant: Mire Leads (WL) 2. 50 Ω RGS8 Caax (RGS8) Note: Underwater Mateable Connector (UMC) A. ML-SO15 Style (SD15) 5. Gustom (custom) Note: Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. 1. Default: Free Hanging (FH) 2. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Single O-ring (THOD) 4. 80H T Fastening Mounting (Stalless Steel)! (BFMSS		155.3 dB µPa/V@1m @ fs				
3dB Beam Width: 32' Beam Pattern: Conical Side Lobe Level: 5-17.7 (db) Free Capacitance: 21.6 n F @ 1kHz Dissipation: 0.005 @ 1kHz Admittance or Impedance: 6-18. m S, B=1.3 m S @ fs MIPP: 660 Watts, Maximum Input Pulse Power. MIPP: 280 Seconds, Maximum Pulse Width MCIP: 46 Watts, Maximum Continuous Input Power. 1. Two Conductor Shielded Cable (SC) 2.50 Ω RG58 Coax (RG58) Note: Operating depth is limited by the cable length without a suitable underwater sealing part. Cable Length: 1. Default: Im 2. Custom 2. Coutom 3. Underwater Mateable Connector (UMC) 3. Underwater Mateable Connector (UMC) 4. ML-5015 Style (5015) 5. Custom (custom) Note: Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. 1. Default: Free Hanging (FH) 2. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Single O-ring (THSO) 4. Bolt Fastening Mounting (Stalless Steel): (BFMSS) 5. End-face Mounting; (EFM) 5. Ind-face Moun	Free-field Voltage Sensitivity:					
Side Lobe Level: \$ -17.7 (dB) Free Capacitance: 21.6 nF @ 1.kHz Dissipation: 0.005 @ 1.Hz Admittance or Impedance: G=1.8 mS, B=1.9 mS @ fs G60 Watts, Maximum Input Pulse Power. Note:: WIPP: 280 Seconds, Maximum Continuous Input Power. MIPP: 280 Seconds, Maximum Continuous Input Power. 1. Two Conductor Shieled Cable (SC) Cable: 2.5 0.0 RGS8 Coax (RGS8) Note:: 0.005 @ 0.0000 (MC) 1. Default: 1m 2. Custom 2. Custom 1. Default: Wire Leads (VL) 2. So 0.0 RNC Male (BNC) 3. Underwater Mateable Connector (UMC) 4. MIL-5015 Style (5015) 5. Custom (custom) Note: Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. 1. Default: Free Hanging (FH) 2. Thru-hole Mounting (THO) 4. But Fraee Mounting: (FEM) 5. End-Face Mounting: (FEM) 6. Lag Mounting: (FEM) 5. Ind-Face Mounting: (FEM) 6. Lag with 10m cable: Actual weight depends on Mounting Parts. Weight: 6. Obg with 10m cable: Actual weight depends on Mounting Parts. Contact 2 Contact 2 Contact C	-3dB Beam Width:					
Pree Capacitance: 21.6 nf (© 1kHz Dissipation: 0.005 @ 1kHz Admittance or Impedance: G=1.8 mS, B=1.9 mS @ fs 660 Watts, Maximum Input Pulse Power. Note: with built-in impedance matching unit, MIPP can reach 2400W. Contact BII for details. MPW@ MIPP: 280 Seconds, Maximum Pulse Width MCIP: 46 Watts, Maximum Continuous Input Power. 1. Two Conductor Shielded Cable (SC) 2. 50 0 RGS Coax (RCS8) Note: Operating depth is limited by the cable length without a suitable underwater sealing part. Cable: Cable Length: 1. Default: 1m 2. Custom 2. 50 0 RGS Coax (RCS8) Note: Underwater Mateable Connector (UMC) 3. Underwater Mateable Connector (UMC) 3. Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. 1. Default: Fire Hanging (FH) 1. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Single O-ring (THSO) 4. Bolt Fastening Mounting (SEM) 5. End-face Mounting: (FFM) 6. Jokg with 10m cable. Actual weight depends on Mounting Parts. Weight: 6. Okg with 10m cable. Actual weight depends on Mounting Parts. Wei	Beam Pattern:	Conical				
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Admittance or Impedance: G=1.8 mS, B=1.9 mS @ fs MIPP: Kell Set with built-in impedance matching unit, MIPP can reach 2400W. Contact BII for details. MIPW @ MIPP: 280 Seconds, Maximum Input Pulse Power. Additional of the set of t	Free Capacitance:					
Admittance or Impedance: G=1.8 mS, B=1.9 mS @ fs MIPP: 660 Watts, Maximum Input Pulse Power. Note:: 46 Watts, Maximum Continuous Input Power. 1. Two: Conductor Shielded Cable (SC) Cable: 2.50 Ω RG58 Coax (RG58) Note:: 0.00 RG50 Sold (S015) S. Custom 1. Default: Tree Hanging (FH) 2. Thru-hole Mounting with Double O-ring (THSO) 3. Thru-hole Mounting with Double O-ring (THSO)	Dissipation:					
MIPP: Note: with built-in impedance matching unit, MIPP can reach 2400W. Contact BII for details. MPW @ MIPP: 280 Seconds, Maximum Pulse Width MCIP: 46 Watts, Maximum Continuous Input Power. 1. Two Conductor Shielded Cable (SC) . Cable: 2. 50 0 RGS8 (Coax (RGS8) Note: Operating depth is limited by the cable length without a suitable underwater sealing part. Cable Length: 1. Default: Time Leads (WL) 2. Custom 2. Custom 3. Underwater Mateable Connector (UMC) 3. Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. A. Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. Mounting Options: 1. Default: Free Hanging (FH) A. Thu-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting (Stainless Steel): (BFMSS) 5. End-face Mounting: (FEM) 6. Flange Mounting: (FEM) 6. Ng with 10m cable. Actual weight depends on Mounting Parts. Size: ØD XH = Q168 x 100 mm, actual length depends on Mounting Parts. Size: ØD XH = Q168 x 100 mm, actual length depends on Mounting Parts. Soroage Temperature: -10°C to +60°C or 14	· · ·					
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MCIP: 46 Watts, Maximum Continuous Input Power. Cable: 1. Two Conductor Shielded Cable (SC) Cable: 2. 50 0. RG58 Coax (RG58) Note: Operating depth is limited by the cable length without a suitable underwater sealing part. Cable Length: 1. Default: 1m 2. Custom 1. Default: Wire Leads (WL) 2. S0 0 BNC Male (BNC) 3. Underwater Mateable Connector (UMC) 4. MIL-5015 Style (5015) 5. Custom (custom) Note: Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. Mounting Options: 1. Default: Free Hanging (FH) 2. Thru-hole Mounting with Double O-ring (THDO) 4. Bolt Fastening Mounting (Stainless Steel): (BFMSS) 5. End-face Mounting: (FEM) 6. Itage Mounting: (FFM) 6. Algae With 10m cable. Actual weight depends on Mounting Parts. Weight: 6.0 kg with 10m cable. Actual weight depends on Mounting Parts. Size: 0D XH = 0168 x 100 mm, actual length depends on Mounting Parts. Weight: 6.0 kg with 10m cable. Actual weight depends on Mounting Parts. Operation Temperature: -20°C to +60°C or -4*F to 140°F. Storage Temperature: -20°C to +60°C or -4*F to 140°F. Storage Tempera	MIPP:					
Cable: 1. Two Conductor Shielded Cable (SC) Cable: 2. 50 Ω RGS8 Coax (RGS8) Note: Operating depth is limited by the cable length without a suitable underwater sealing part. Cable Length: 1. Default: 1m 2. Custom 1. Default: Vire Leads (WL) 2. S0 Ω BNC Male (BNC) 3. Underwater Mateable Connector (UMC) 3. Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. Mounting Options: 1. Default: Free Hanging (FH) 2. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Single O-ring (THSO) 4. Bolt Fastening Mounting (Stainless Steel): (BFMSS) 5. End-face Mounting: (FFM) 6. Riage Mounting: (FFM) 6. Ng with 10m cable. Actual weight depends on Mounting Parts. Weight: 6.0 kg with 10m cable. Actual weight depends on Mounting Parts. Operation Temperature: -20°C to +60°C or 14"F to 140"F. Wring: Two Conductor Shielded Cable Contact 2 Contact B Shield Contact 1 Contact 8 Shield Shield Contact 3 Contact A How to determine pulse width, duty cycle and off-time with input pulse power (peak power): 1. Detact B </td <td>MPW @ MIPP:</td> <td colspan="4">280 Seconds, Maximum Pulse Width</td>	MPW @ MIPP:	280 Seconds, Maximum Pulse Width				
Cable: 2.50 Ω RG58 Coax (RG58) Note: Operating depth is limited by the cable length without a suitable underwater sealing part. Cable Length: 1. Default: 1m 2. Custom 1. Default: Wire Leads (WL) 2. So Ω BNC Male (BNC) 3. Underwater Mateable Connector (UMC) 4. MIL-5015 Style (5015) 5. Custom (custom) Note: Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. Mounting Options: 1. Default: Free Hanging (FH) 1. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting (Stainless Steel): (BFMSS) 5. End-face Mounting: (FFM) 6. Flange Mounting: (FGM) 6. Flange Mounting: (FGM) 6. Flange Mounting: (FGM) 6. Flange Mounting: (FGM) 50m, Limited by cable length with wire leads. Size: ΦD H = Φ168 x 100 mm, actual length depends on Mounting Parts. Cable Types and Length. Operation Temperature: -10°C to +60°C or 14°F to 140°F. Storage Temperature: -20°C to +60°C or 14°F to 140°F. Voring: Two Conductor Shielded Cable Coax/BNC Underwater Connector Milt-5015 Connector Transmitting + White or Red Center Contact Contact C Storage Temperature: -20°C to +60°C or -4°F to 140°F. Contact C	MCIP:	46 Watts, Maximum Continuous Input Power.				
Note: Operating depth is limited by the cable length without a suitable underwater sealing part. Cable Length: 1. Default: 1m 2. Custom . I. Default: Wire Leads (WL) . 2. 50 Ω BNC Male (BNC) 3. Underwater Mateable Connector (UMC) 3. Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. S. Custom (custom) 1. Default: Free Hanging (FH) 2. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Single O-ring (THDO) 4. Bolt Fastening Mounting (Stainless Steel): (BFMSS) 5. End-face Mounting: (EFM) 6. Flange Mounting: (FGM) Maximum Operating Depth: 50m, Limited by cable length with wire leads. Size: ØD XH = Φ168 x 100 mm, actual length depends on Mounting Parts. Weight: 6.0 kg with 10m cable. Actual weight depends on Mounting Parts. Operation Temperature: -10°C to +60°C or 14°F to 140°F. Storage Temperature: -20°C to +60°C or -4°F to 140°F. Wring: Two Conductor Shielded Cable Coax/BNC Underwater Connector Transmitting + White or Red Center Contact 2 Contact C Transmitting + Black Shield	Cable:					
Cable Length: 1. Default: 1m 2. Custom 1. Default: Wire Leads (WL) 2. S0 Ω BNC Male (BNC) 3. Underwater Mateable Connector (UMC) 4. MIL-5015 Style (5015) 5. Custom (ustom) Note: Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. 1. Default: Turu-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Double O-ring (THDO) 4. Bult Fastening Mounting: (FFM) 6. Flange Mounting: (FFM) 6. Flange Mounting: (FFM) 6. Flange Mounting: (FFM) 6. Size: ØD XH = Φ168 x 100 mm, actual length depends on Mounting Parts. Store Temperature: -10°C to +60°C or 14°F to 140°F. Weight: 6.0 kg with 10m cable. Actual weight depends on Mounting Parts. Storage Temperature: -20°C to +60°C or -4°F to 140°F. Wring: Two Conductor Shielded Cable Coax/BNC Underwater Connector Transmitting + White or Red Center Contact 2 Contact C Transmitting - Black Shield Contact 1 Contact B Shield ing and System Grounding Shield Contact 3 Contact A How to determine pulse width, duty cycle and off-time with inp						
Cable Length: 2. Custom I Default: Wire Leads (WL) 2. 50 Q BNC Male (BNC) 3. Underwater Mateable Connector (UMC) 4. MIL-5015 Style (5015) 5. Custom (custom) Note: Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. Mounting Options: 1. Default: Free Hanging (FH) 2. Thru-hole Mounting with Double O-ring (THDO) 4. Bolt Fastening Mounting (Stainless Steel): (BFMSS) 5. End-face Mounting; (FFM) 6. Flange Mounting; (FGM) Maximum Operating Depth: 50.ng Limited by cable length with wire leads. Size: ØD xH = Φ168 x 100 mn, actual length depends on Mounting Parts. Weight: 6.0 kg with 10m cable. Actual weight depends on Mounting Parts. Operation Temperature: -10°C to +60°C or 14°F to 140°F. Storage Temperature: -20°C to +60°C or 14°F to 140°F. Wring: Two Conductor Shielded Cable Coax/BNC Viring: Two Conductor Shielded Cable Contact 2 Transmitting + White or Red Center Contact Contact 2 Transmitting - Black Shield Contact 1 Shield Cont						
1. Default: Wire Leads (WL) 2. 50 Ω BNC Male (BNC) 3. Underwater Mateable Connector (UMC) 4. MIL-5015 Style (5015) 5. Custom (custom) Note: Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. 1. Default: Free Hanging (FH) 2. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Double O-ring (THOO) 4. Bolt Fastening Mounting (FGM) 6. Flange Mounting: (FGM) 6. Flange Mounting: (FGM) 6. Flange Mounting: (FGM) 6. Idage With 10m cable. Actual weight depends on Mounting Parts. Store: OD xH = 0168 x 100 mm, actual length depends on Mounting Parts. Storage Temperature: -20°C to +60°C or -4°F to 140°F. Storage Temperature: -20°C to +60°C or -4°F to 140°F. Wiring: Two Conductor Shielded Cable Coax/BNC Underwater Connector Transmitting + White or Red Center Contact Contact 2 Contact C Transmitting + Black Shield Contact 1 Contact A How to determine pulse width, duty cycle and off-time with input pulse power (peak power): 1. Detrault: The project. IPP MUST be less than MIPP; <td< td=""><td>Cable Length:</td><td colspan="4"></td></td<>	Cable Length:					
2. 50 Ω BNC Male (BNC) 3. Underwater Mateable Connector (UMC) 4. MIL-5015 Style (5015) 5. Custom (custom) Note: Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. 1. Default: Free Hanging (FH) 2. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Double O-ring (THDO) 4. Bolt Fastening Mounting (Stainless Steel): (BFMSS) 5. End-face Mounting: (FGM) Maximum Operating Depth: 50m, Limited by cable length with wire leads. Size: ΦD XH = Φ168 x 100 mm, actual length depends on Mounting Parts. Weight: 6.0 kg with 10m cable. Actual weight depends on Mounting Parts. Operation Temperature: -10°C to +60°C or 14°F to 140°F. Storage Temperature: -20°C to +60°C or -4°F to 140°F. Wiring: Two Conductor Shielded Cable Coax/BNC Underwater Connector MIL-501S Connector Transmitting + White or Red Center Contact Contact 2 Contact C Transmitting + Black Shield Contact 3 Contact A How to determine pulse width, duty cycle and off-time with input pulse power (jeak power): 1. Determine the input pulse power (PP, peak power) with sound intensi						
3. Underwater Mateable Connector (UMC) 4. MIL-5015 Style (5015) 5. Custom (custom) Note: Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. Mounting Options: 1. Default: Free Hanging (FH) 2. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Double O-ring (THDO) 4. Bolt Fastening Mounting (Stainless Steel): (BFMSS) 5. End-face Mounting: (FGM) Maximum Operating Depth: 50m, Limited by cable length with wire leads. Size: 40 M + 40168 x 100 mm, actual length depends on Mounting Parts. Size: 40 M + 40168 x 100 mm, actual length depends on Mounting Parts. Storage Temperature: -10°C to +60°C or 14°F to 140°F. Weight: 6.0 kg with 10m cable. Actual weight depends on Mounting Parts, Cable Types and Length. Operation Temperature: -20°C to +60°C or -4°F to 140°F. Wring: Two Conductor Shielded Cable Coax/BNC Underwater Connector Mile or Red Center Contact Contact 1 Contact 2 Transmitting + White or Red Center Contact Contact 1 Contact B Shielding and System Grounding Shield Contact 3 Contact A	Connector:					
Connector: 4. MIL-5015 Style (5015) S. Custom (custom) Note: Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. Mounting Options: 1. Default: Free Hanging (FH) A. Bolt Fastening Mounting with Double O-ring (THSO) 3. Thru-hole Mounting with Double O-ring (THDO) A. Bolt Fastening Mounting (Stainless Steel): (BFMSS) 5. End-face Mounting: (EFM) 6. Flange Mounting: (FGM) 6. Flange Mounting: (FGM) Maximum Operating Depth: 50m, Limited by cable length with wire leads. Size: ΦD XH = Φ168 x 100 mm, actual length depends on Mounting Parts, Cable Types and Length. Operation Temperature: -10°C to +60°C or 14°F to 140°F. Storage Temperature: -20°C to +60°C or 14°F to 140°F. Wring: Two Conductor Shielded Cable Contact 2 Contact C Transmitting + White or Red Center Contact Contact 2 Contact A Shield Shield Contact 3 Contact A How to determine pulse width, duty cycle and off-time with input pulse power (peak power): I. Detartine to input pulse power (IPP, peak power) with sound intensity required by the project. IPP MUST be less than MIPP; 2. Pulse Width ≤ (MIPP * MPW*(120°c-T)/103°c)/IPP; T: Water Temperature in °c. IPP MUST						
5. Custom (custom) Note: Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. Mounting Options: 1. Default: Free Hanging (FH) 2. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Double O-ring (THDO) 4. Bolt Fastening Mounting (Stainless Steel): (BFMSS) 5. End-face Mounting: (FFM) 6. Flange Mounting: (FGM) Maximum Operating Depth: 50m, Limited by cable length with wire leads. Size: ΦD xH = Φ168 x 100 mm, actual length depends on Mounting Parts. Weight: 6.0 kg with 10m cable. Actual weight depends on Mounting Parts, Cable Types and Length. Operation Temperature: -10°C to +60°C or 14°F to 140°F. Storage Temperature: -20°C to +60°C or -4°F to 140°F. Wring: Two Conductor Shielded Cable Coax/BNC Underwater Connector MIL-5015 Connector Transmitting + White or Red Center Contact Contact 2 Contact C Transmitting - Black Shield Contact 1 Contact A How to determine pulse width, duty cycle and off-time with input pulse power (peak power): 1. Determine the input pulse power (IPP, peak power) with sound intensity required by the project. IPP MUST be less than MIPP; 2. Pulse Width ≤ (MIPP * MPW*(120°c-T)/103°c)/IPP; T: Water Temperature in °c. Yeat Temperature in °c.						
Note: Underwater Mateable Connector is for uses underwater. Other connectors and wire leads are for dry uses, and are not water proofed. 1. Default: Free Hanging (FH) 2. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Double O-ring (THDO) 4. Bolt Fastening Mounting (Stainless Steel): (BFMSS) 5. End-face Mounting: (EFM) 6. Flange Mounting: (FGM) Maximum Operating Depth: 50m, Limited by cable length with wire leads. Size: ØD XH = Ф168 x 100 mm, actual length depends on Mounting Parts. Weight: 6.0 kg with 10m cable. Actual weight depends on Mounting Parts, Cable Types and Length. Operation Temperature: -10°C to +60°C or 14°F to 140°F. Storage Temperature: -20°C to +60°C or -4°F to 140°F. Wring: Two Conductor Shielded Cable Coax/BNC Underwater Connector MIL-5015 Connector Transmitting + White or Red Center Contact Contact 2 Contact C Transmitting - Black Shield Contact 3 Contact A Bhield Shield Contact 3 Contact A How to determine pulse width, duty cycle and off-time with input pulse power (peak power): I. Detaute Toppet. Publes than MIPP; 1. Detarting -						
uses, and are not water proofed. 1. Default: Free Hanging (FH) 2. Thru-hole Mounting with Single O-ring (THSO) 3. Thru-hole Mounting with Double O-ring (THDO) 4. Bolt Fastening Mounting (Stainless Steel): (BFMSS) 5. End-face Mounting: (FFM) 6. Flange Mounting: (FGM) Maximum Operating Depth: 50m, Limited by cable length with wire leads. Size: ΦD xH = Φ168 x 100 mm, actual length depends on Mounting Parts. Weight: 6.0 kg with 10m cable. Actual weight depends on Mounting Parts, Cable Types and Length. Operation Temperature: -10°C to +60°C or 14°F to 140°F. Storage Temperature: -20°C to +60°C or -4°F to 140°F. Viring: Two Conductor Shielded Cable Coax/BNC Underwater Connector MIL-5015 Connector Transmitting + White or Red Center Contact Contact 2 Contact C Shield Shield Contact 1 Contact A Shielding and System Grounding Shield Shield Contact 3 Contact A How to determine pulse width, duty cycle and off-time with input pulse power (peak power): 1. Determine the input pulse power (IPP, peak power) with sound intensity required by the project. IPP MUST be less than MIPP; 2. Pulse Width ≤ (MIPP * MPW*(120°c-T)/103°c)/IPP; T: Water						
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			ature in °c.			
3. Duty Cycle $D \le MCIP^*(120^\circ c-T)/103^\circ c)/IPP;$		103°C)/IPP;				

4. Off-time \geq PW*(1-D)/D.

WARNING: DANGER — HIGH VOLTAGE on wires. Wires shall be insulated for safety. DO NOT TOUCH THE WIRES BEFORE THE DRIVING SIGNAL IS SHUT DOWN. Cable shield must be grounded firmly for safety.

for 50Ω BNC Male connector, it is buyer's sole responsibility to make sure that the (female) BNC shield of the signal source is firmly grounded for operating safety before hooking up transducer/hydrophone to the signal source. Coax with BNC is not intended for hand-held use at voltages above 30Vac/60Vdc.