

MILGEM Sonar Transducer MST-01

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NATO Stock Number – NSN: 5825-27-057-0873

Producer Description :TAKIM TRANSDUSER SONAR MST01

MST-01 is a linear, high power transducer design is sealed specially to work in sea water for a long time with high isolation resistances.

Key Features

MST-01 is designed for the surveillance of the underwater environment to automatically detect and track underwater targets such as submarines, mines, UUV/AUV's and torpedoes.

- Low – Medium Frequency Active
- Anti Submarine Warfare and Mine Avoidance Sonar Sensor
- High Power Transmission
- Broad Band Receive
- Proven Design
- Reliable

Customization and Support

Custom transducers, array and carcas structures of any geometry can be design, produced and tested with respect to the customer requirements. Meteksan Defence offers customer support services like installation - integration to the hosting platform and test.

www.meteksan.com



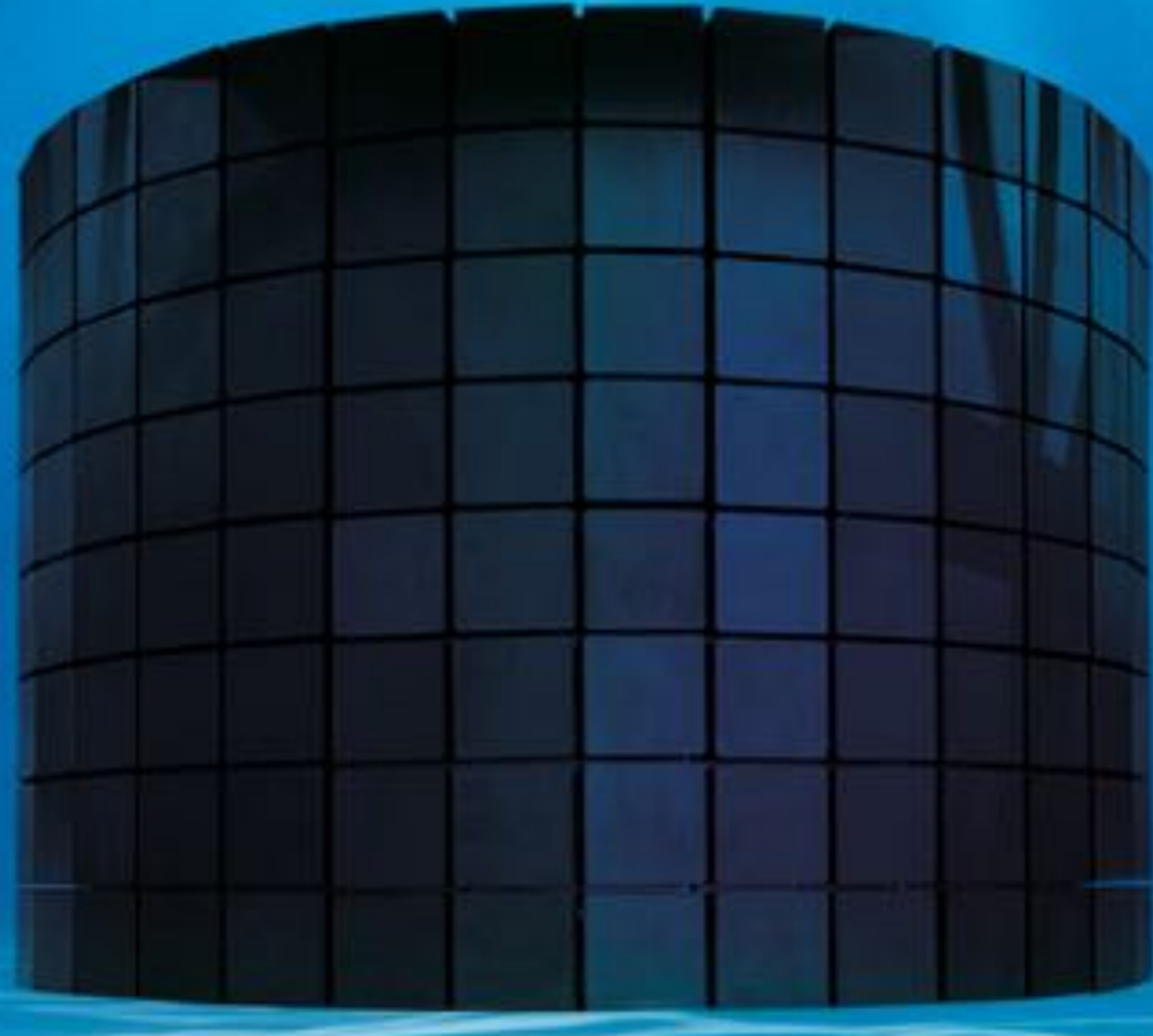
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MILGEM Sonar Transducer

MST-01



Description

MST-01 Transducer is used as being initial outfitting sensor element of wet-end for MILGEM Sonar YAKAMOS and also as being spare part of HULL Mounted Sonar systems wet-ends of MILGEM corvettes, MEKO and GABYA Class Frigates.

MST-01 is a Hull Mounted Sonar Transducer which can be used in different combinations to construct staves for wet-end of sonar systems. It can be used in different combinations (i.e. 6 or 8 in a staff) for various custom cylindrical transducer array designs.

Application Areas

- Corvettes
- Frigates
- Off Shore platform Vessels

Key Features



Low – Medium Frequency Active



Broad Band Receive



Proven Design



High Power Transmission



Improved Performance



Reliable

Technical Specifications

Transmit Frequency Band	6 kHz-9 kHz
Receive Frequency Band	2 kHz-10 kHz
Transmitting Voltage Response (TVR- dB//1 μ Pa/V at 1 mt @7,5 kHz)	151.5 \pm 3 dB
Receiving Voltage Sensitivity (RVS- dB//V/ μ Pa @7,5 kHz)	-162 \pm 3 dB
Beamwidth (-3dB)	75°
Max Drive Voltage	600Vpp
Harmonic Distortion	Max.%5
Linearity	\pm 1,0 dB
Isolation Resistance	> 50M Ω

Environmental

Operating Temperature	+2 °C to +35 °C
Storage Temperature	-40 °C to +70 °C
Hydrostatic Pressure	3.5 kg/cm ²
Vibration	MIL-STD-167-1, Mech.Vibrations of the Shipboard Equip.-Type I
Atmosferic Pressure	200 hPa - 1400 hPa
Ship Movement	Roll < \pm 22.5°, Trim < \pm 10°