

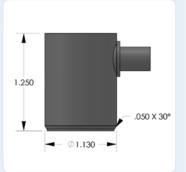


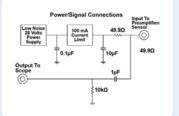


LN15I Sensor

Medium Frequency Resonant Sensor







DESCRIPTION AND FEATURES

The LN15I sensor is a very low noise, medium frequency, resonant, acoustic emission sensor with an integral, ultra low noise, filtered, 40dB preamplifier, which can drive up to 1000 ft of cable. This new sensor represents an improvement in both noise and AST* performance, with noise level well below 2uV and an AST signal strength increase of 20dB over the R15I. The LN15I features a strong insulated, lightweight, Aluminum alloy, integrated sensor housing. The sensor outside shell is anodized, providing a non-conductive finish, to prevent any possible electric shorts from metal testing structures. The sensor outside casing is also color coded blue to identify the sensor model. The EMI shielding of the sensor has been improved by more than 300% compared with previous sensors. The sensor is the same size and has the same frequency response and sensitivity as the R15I sensor.

APPLICATIONS

The LN15I sensor can be used to replace R15I general purpose AE sensor in very low noise and high EMI noise applications, and applications requiring higher energy AST pulsing.

PRODUCT DATA SHEET

OPERATING SPECIFICATIONS

Dynamic		
Peak Sensitivity, Ref V/(m/s)	110 dB	
Peak Sensitivity, Ref V/μbar	18 dB	
Operating Frequency Range 5	0-200 kHz	
Resonant Frequency, Ref V/(m/s)	90 kHz	
Resonant Frequency, Ref V/µbar	150 kHz	
Directionality	.+/- 1.5 dB	
Environmental		
Temperature Range	35 to 75ºC	
Shock Limit	500 g	
Completely enclosed crystal for RFI/EMI immunity		
Physical		
Dimensions1.13"OL	X 1.28"H	
29 mm OD X 3		
Weight	51 grams	
Case Material Blue Color Anodized Aluminum Alloy		
Face Material	Ceramic	
Connector	BNC	
Connector Locations	Side	

ORDERING INFORMATION AND ACCESSORIES

LN15I	LN15I
Cable (specify cable length in meters)	1234-X
Magnetic Hold-Down	MHR15I
Amplifier Subsystem	AE2A, AE5A

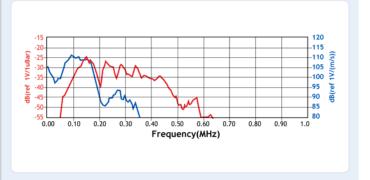
 Input Voltage Range (VDC)
 16-29

 Operating/Max Current (mA)
 26/120

Sensors include

Electrical

NIST Calibration Certificate & Warranty







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