

Model Number
054108-01203

LOAD WASHER LOAD CELL - 1/2" FASTENER

Revision: D
ECN #: 53433

	ENGLISH	SI	
Performance			
Measurement Range(Full Scale Capacity)	20,000 lb	89.0 kN	[1]
Sensitivity(output at rated capacity)	1.50 mV/V	1.50 mV/V	[1][2]
Non-Linearity	± 5 % FS	± 5 % FS	[2]
Hysteresis	± 5 % FS	± 5 % FS	[2]
Non-Repeatability	± 2 % FS	± 2 % FS	[2]
Resonant Frequency	10 kHz	10 kHz	
Environmental			
Overload Limit	30,000 lb	133.5 kN	
Temperature Range(Operating)	0 to +200 °F	-18 to +93 °C	
Temperature Range(Compensated)	+70 to +170 °F	+21 to +77 °C	
Temperature Effect on Output(Maximum)	± 0.002 %Reading/°F	± 0.0018 %Reading/°C	[3]
Temperature Effect on Zero	± 0.002 %FS/°F	± 0.0018 %FS/°C	[2]
Balance(Maximum)			
Electrical			
Bridge Resistance	350 Ohm	350 Ohm	[1]
Excitation Voltage(Recommended)	10 VDC	10 VDC	[4]
Zero Balance	≤ 1 % FS	≤ 1 % FS	
Output Polarity(Compression)	Positive	Positive	
Isolation Resistance	≤ 1G Ohm	≤ 1G Ohm	
Physical			
Size (Height x Diameter)	0.455 in x 1.111 in	11.56 mm x 28.22 mm	[5]
Fastener Size	1/2 in	NO EQUIV	
Through Hole Diameter	.507 in	12.88 mm	
Sensing Element	Strain Gage	Strain Gage	
Electrical Connector	Pigtail Ends	Pigtail Ends	
Electrical Connection Position	Side	Side	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

- [1]Nominal.
- [2]FS - Full Scale.
- [3]Over compensated operating temperature range.
- [4]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
- [5]See Outline Drawing (LT30776) for Complete Dimensions

SUPPLIED ACCESSORIES:

Model 7122R-007502 8G16B 75K .025% GENER RES 3PPM (1)
 Model 92160-032527 1/2" Hardened Washer - Bottom (1)
 Model 92160-032528 1/2" Hardened Washer - Top (1)

OPTIONAL ACCESSORIES:

Model 080922-01000 MODEL 922 DIGITAL PEAK METER
 Model 080962-01000 MODEL 962 DATA RECORDER

Entered: ND	Engineer: PE	Sales: DM	Approved: JM	Spec Number:
Date: 12/16/2022	Date: 12/16/2022	Date: 12/16/2022	Date: 12/16/2022	48918

All specifications are at room temperature unless otherwise specified.
 In the interest of constant product improvement, we reserve the right to change specifications without notice.



PCB Load & Torque A Division of PCB Piezotronics
 24350 Indoplex Circle Farmington Hills, MI 48335
 UNITED STATES
 Phone: 866-684-7107
 E-Mail: LTSales@pcb.com
 Web site: www.pcb.com/LoadAndTorque