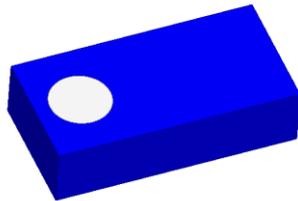


Description: 1608 2.4G Chip Antenna

PART NUMBER: ANT1608LL14R2400A

Features:

- Size : 1.6x0.8x0.4 mm
- Working Frequency : 2.4~2.5GHz
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant



Applications:

- 2.4GHz WiFi device
- Bluetooth device
- Zigbee device
- ISM band equipment

All dimensions are in mm / inches

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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Description: 1608 2.4G Chip Antenna

PART NUMBER: ANT1608LL14R2400A

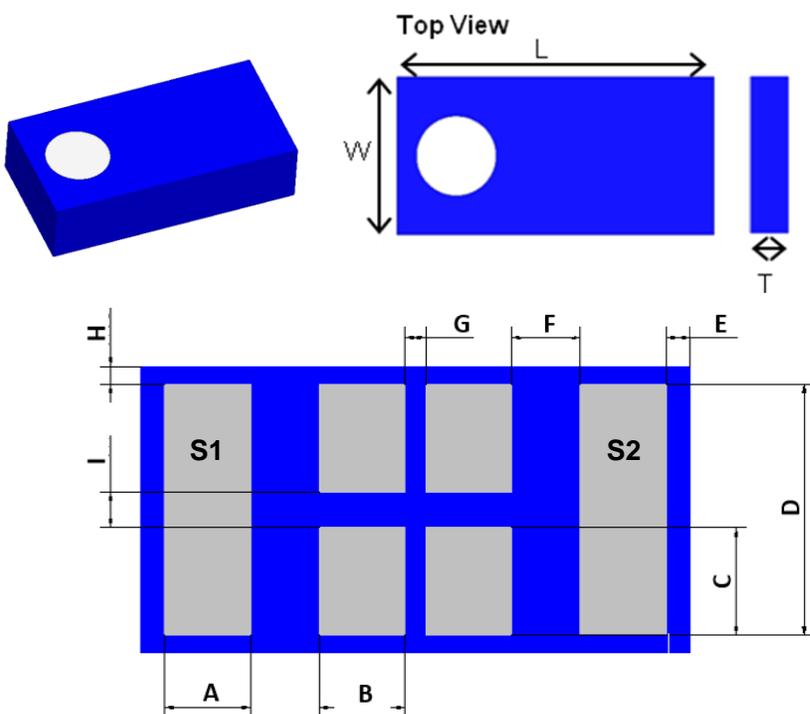
ELECTRICAL SPECIFICATIONS

Working Frequency	2.4 ~ 2.484 GHz
Bandwidth	150 MHz(Typ.)
Return Loss	6.0 dB Max
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	2.0 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 5sec.

NOTE
1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	1.60 ±0.15
W (mm)	0.80 ±0.15
T (mm)	0.40 (Max.)
A (mm)	0.25 ±0.15
B (mm)	0.25 ±0.15
C (mm)	0.30 ±0.15
D (mm)	0.70 ±0.15
E (mm)	0.07 ±0.07
F (mm)	0.20 ±0.10
G (mm)	0.06 ±0.05
H (mm)	0.05 ±0.05
I (mm)	0.10 ±0.05



Terminal name	Function
S1	Soldering Pad
S2	Feeding Pad

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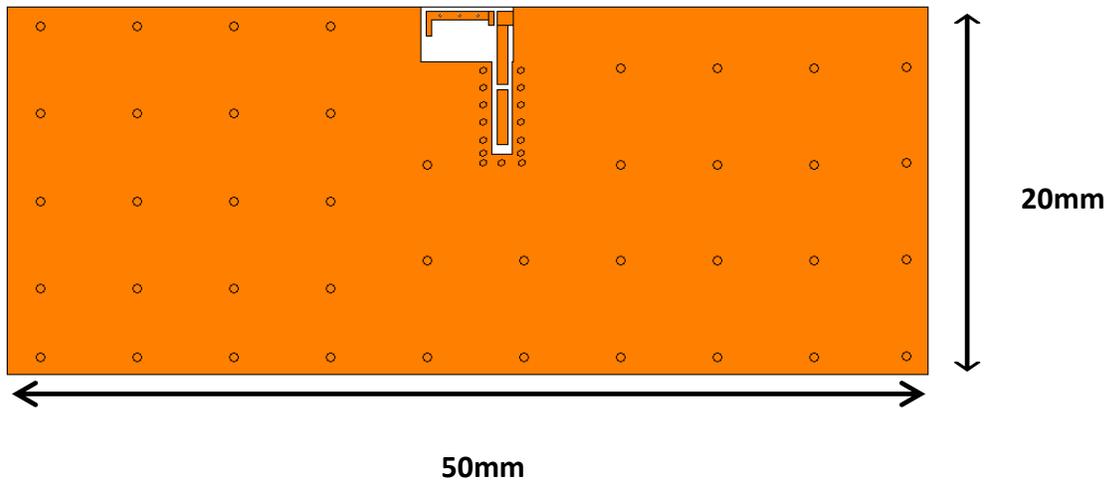
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Description: 1608 2.4G Chip Antenna

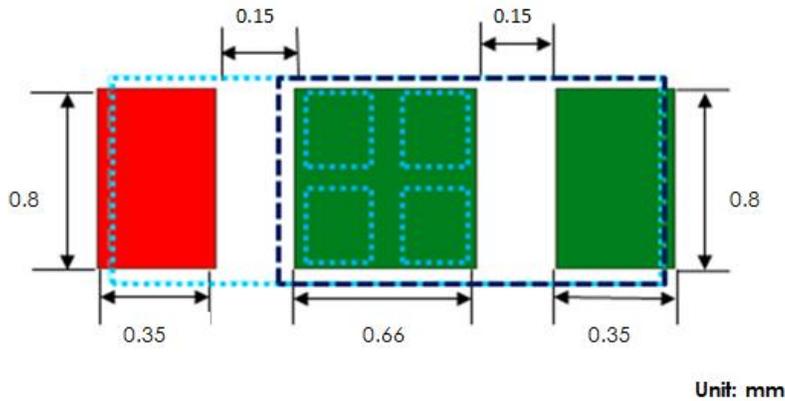
PART NUMBER: ANT1608LL14R2400A

REFERENCE DESIGN OF EVALUATION BOARD (SCENARIO 1)

◇SCENARIO 1



Outlook and dimension of evaluation board (Scenario 1)



- Footprint for radiator electrode
- Footprint for feeding
- Antenna Outline

Footprint

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

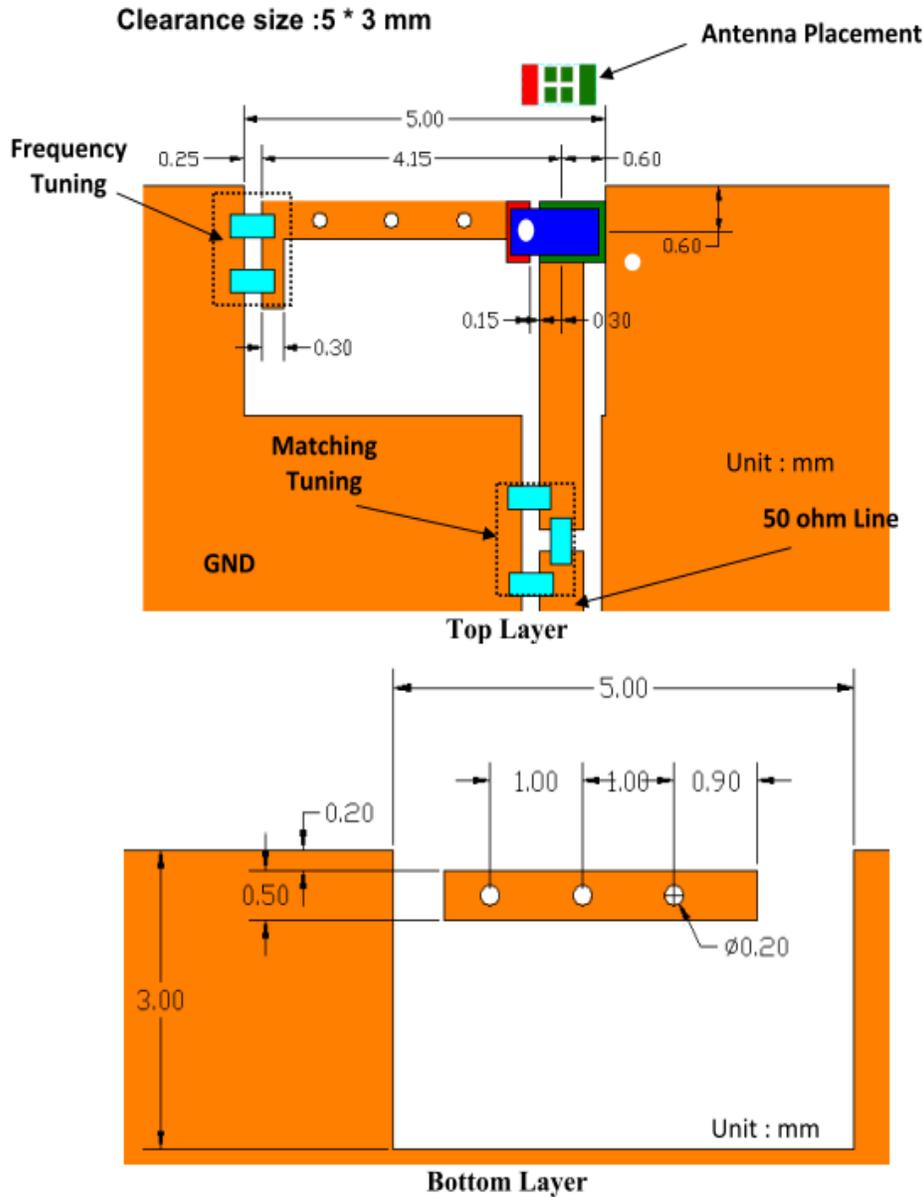
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Description: 1608 2.4G Chip Antenna

PART NUMBER: ANT1608LL14R2400A

REFERENCE DESIGN OF EVALUATION BOARD (SCENARIO 1)



Details of soldering Pad of Scenario 1

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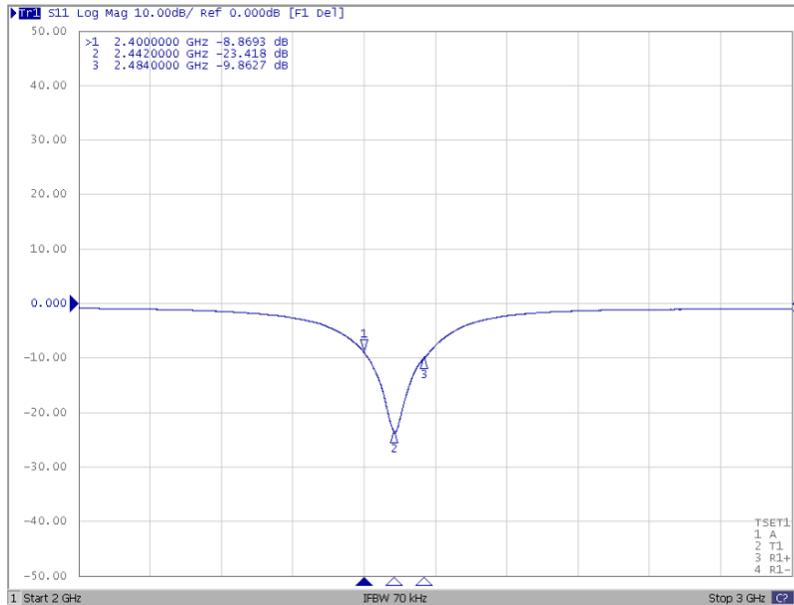
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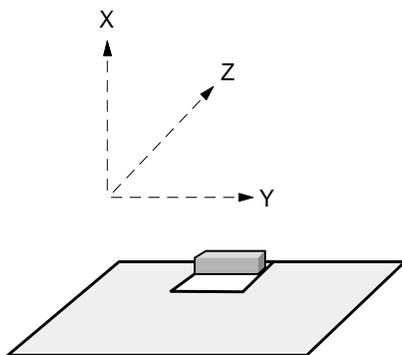
Description: 1608 2.4G Chip Antenna

PART NUMBER: ANT1608LL14R2400A

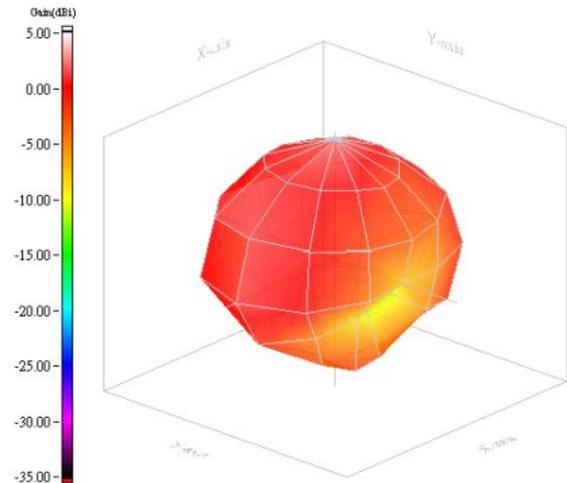
ELECTRICAL PERFORMANCES (SCENARIO 1)



Return loss of Scenario 1



Evaluation board and XYZ direction



Max Gain = 2.03dBi
Efficiency = -2.08dB, 61.88%

Radiation pattern of Scenario 1

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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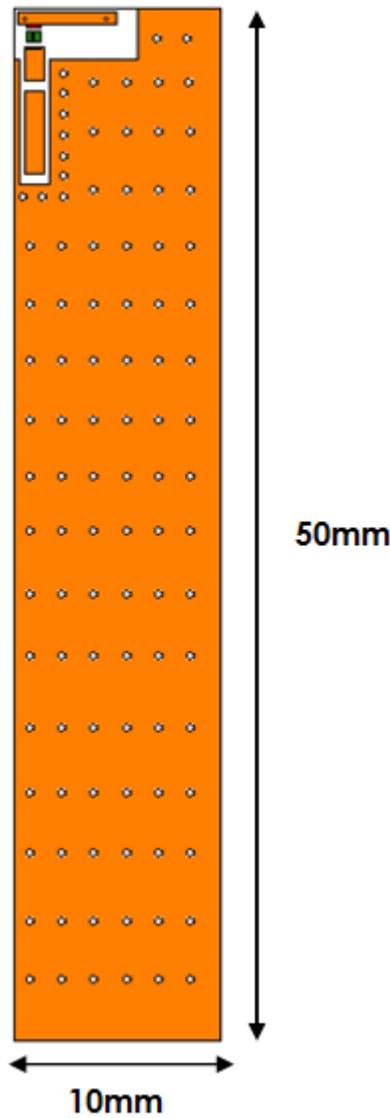
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Description: 1608 2.4G Chip Antenna

PART NUMBER: ANT1608LL14R2400A

REFERENCE DESIGN OF EVALUATION BOARD (SCENARIO 2)

◇SCENARIO 2



Outlook and dimension of evaluation board (Scenario 2)

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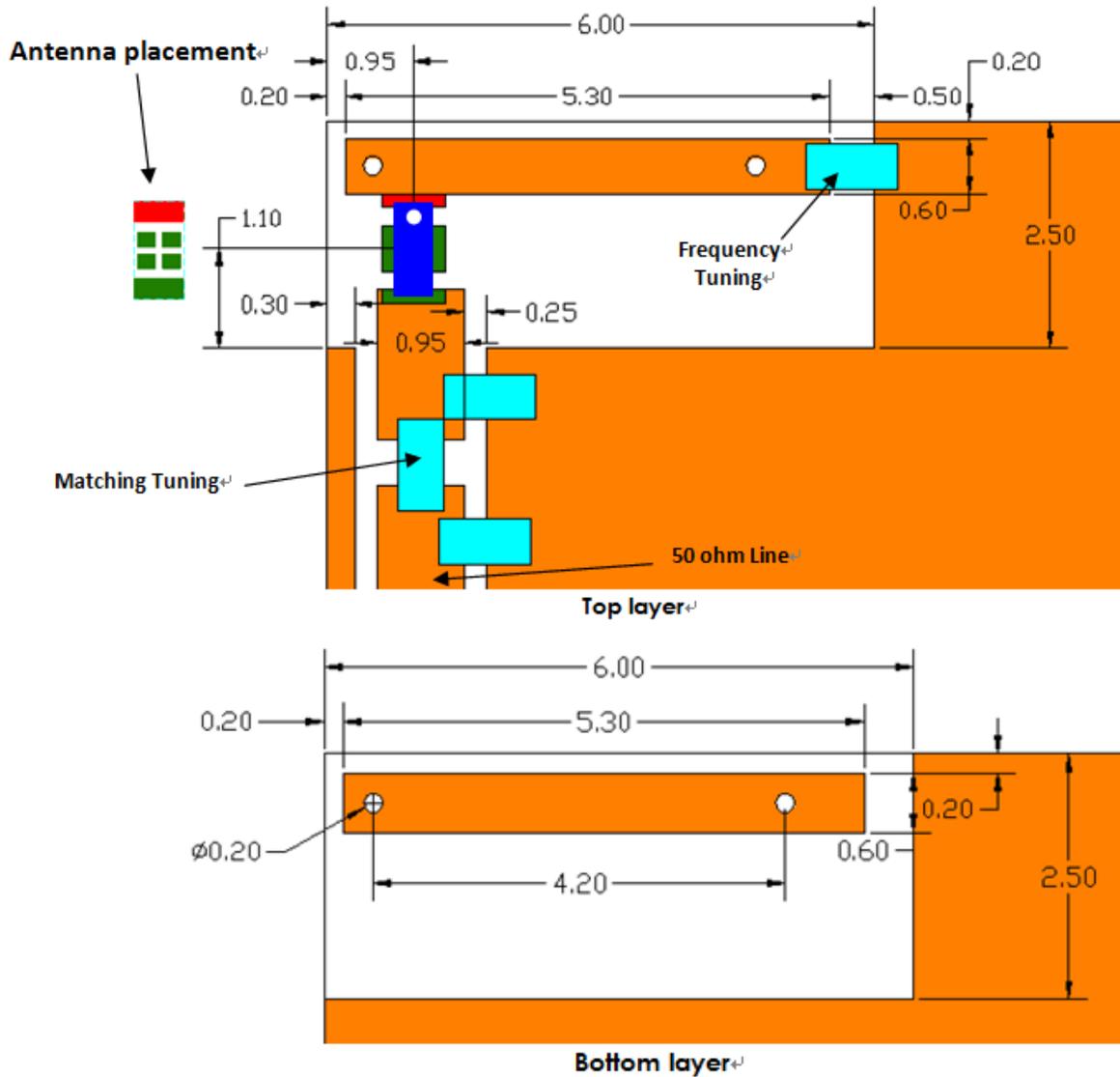
Description: 1608 2.4G Chip Antenna

PART NUMBER: ANT1608LL14R2400A

REFERENCE DESIGN OF EVALUATION BOARD (SCENARIO 2)

◇SCENARIO 2

Clearance size : 6 * 2.5 mm



Details of soldering Pad of Scenario 2

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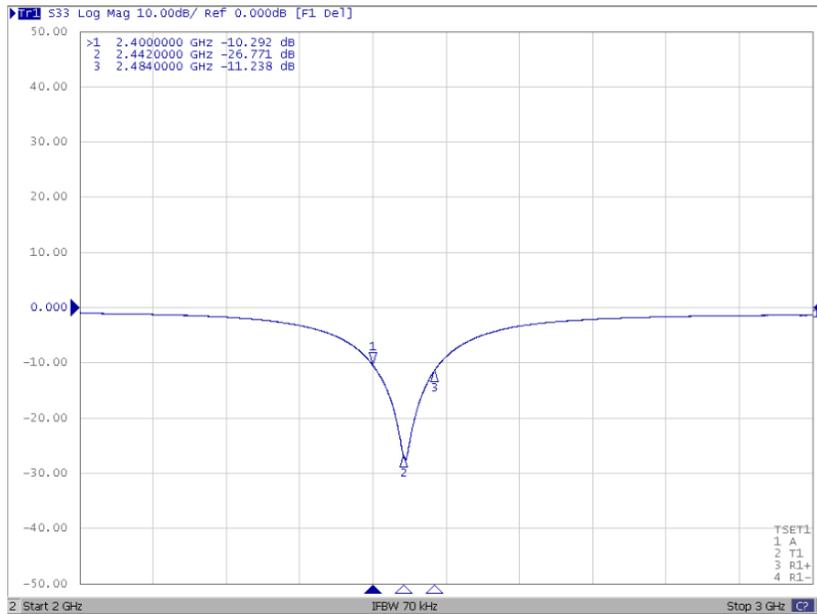
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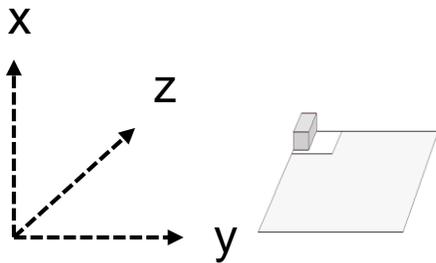
Description: 1608 2.4G Chip Antenna

PART NUMBER: ANT1608LL14R2400A

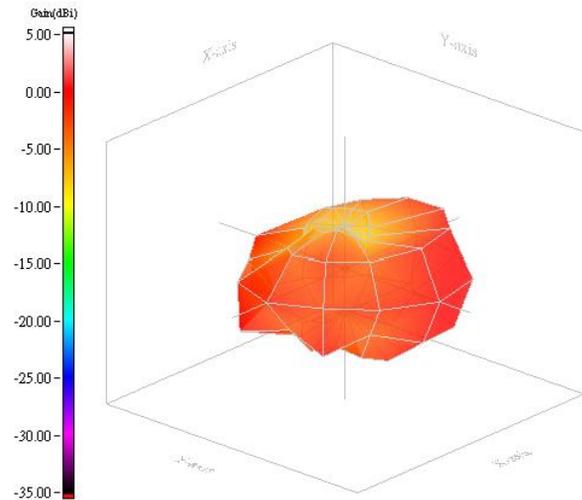
ELECTRICAL PERFORMANCES (SCENARIO 2)



Return loss of Scenario 2



Evaluation board and XYZ direction



Max Gain = 3.38dBi
Efficiency = -2.17dB, 60.64%

Radiation pattern of Scenario 2

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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Description: 1608 2.4G Chip Antenna

PART NUMBER: ANT1608LL14R2400A

REVISION HISTORY

Revision	Date	Description
Version 1	Sep. 30, 2020	- New issue
Version 2	Aug. 30, 2021	- Added Dimension E, G, H.

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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