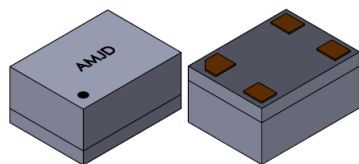


FREQUENCY SELECTABLE MEMS OSCILLATORS



AMJD-SERIES



ESD Sensitive



RoHS/RoHS II Compliant

MSL = MSL 1

1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

FEATURES

- Output selectable between 2 frequencies
- Compact footprint as small as 1.6x1.2mm
- Low 0.84mm profile
- Low power consumption
- 1MHz to 100MHz output frequency range
- Short lead time for new frequencies
- Wide -40°C to +85°C operating temperature range
- Low operating current: 3mA IDD (typ)

APPLICATIONS

- Wearables
- Internet of Things (IoT)
- Industrial IoT
- Audio and video
- Drones and robotics

ELECTRICAL SPECIFICATIONS

Electrical characteristics unless otherwise indicated, $V_{DD} = 1.8V - 5\%$ to $3.3V + 10\%$, temperature range -40°C to 85 °C

Parameters		Min.	Typ.	Max.	Units	Note
Frequency Range		1.0000		100.0000	MHz	
Power Supply Voltage (V_{DD})		1.71		3.63	V	
Current Consumption (I_{DD})			3.0		mA	$f_{out} = 27MHz$, $V_{DD} = 1.8V$, No Load
Operating Temperature Range		-40		+85	°C	See Options
Storage Temperature		-55		+150	°C	
All Inclusive Frequency Stability		-25		+25	ppm	Options "D" or "F"
		-50		+50		Options "E" or "G"
Aging		-5		+5	ppm	1 st year @25°C
		-1		+1		Per year after first year
Duty Cycle		45		55	%	
Output Logic Levels	Logic High V_{OH}	$0.8 \cdot V_{DD}$			V	Std Drive option: I = 3mA
	Logic Low V_{OL}			$0.2 \cdot V_{DD}$		High Drive option: I = 6 mA
						Std Drive option: I = -3mA
						High Drive option: I = -6 mA
Input Logic Levels	Logic High V_{IH}	$0.7 \cdot V_{DD}$			V	
	Logic Low V_{IL}			$0.3 \cdot V_{DD}$		
Enable Pull-Up Resistor			300		kΩ	
Power Supply Ramp (t_{PU})		0.1		100	ms	Time to 90% targeted V_{DD}
Start-up Time (t_{SU})				1.5	ms	From 90% V_{DD} to valid clock output, @ 25°C

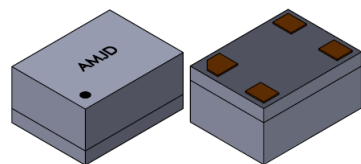


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2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

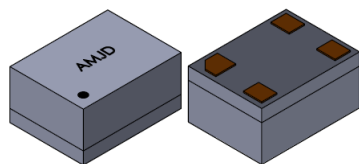
ELECTRICAL SPECIFICATIONS

Parameters		min	Typ.	Max.	Units	Note
Frequency Select Switching Time (t_{fs})			40		μs	
Rise(T_r)/Fall (T_f) Time	High Drive 20% \leftrightarrow 80%		1	1.5	ns	CL = 15 pF V_{DD} = 1.8V
			0.5	1.0		CL = 15 pF V_{DD} = 2.5V/3.3V
	Std Drive 20% \leftrightarrow 80%		1.2	2.0		CL = 10 pF V_{DD} = 1.8V
			1.5	2.2		CL = 10 pF V_{DD} = 2.5V/3.3V
RMS Period Jitter	f_{out} = 27 MHz		9.5	11	ps	V_{DD} = 1.8 V
			7.5	9		V_{DD} = 2.5V/3.3V
Cycle-to-Cycle Jitter (Peak)	f_{out} = 27 MHz		50	70	ps	V_{DD} = 1.8 V
			35	60		V_{DD} = 2.5V/3.3V

ABSOLUTE MAXIMUM RATINGS

Parameters	min	Typ.	Max.	Units	Note
Supply Voltage	-0.3		+4.0	V	
Input Voltage	-0.3		V_{DD} +0.3	V	
Maximum Junction Temperature			+150	$^{\circ}C$	
Ambient Operating Temperature	-40		+85	$^{\circ}C$	Industrial
Ambient Operating Temperature	-20		+70	$^{\circ}C$	Extended Commercial
Storage Ambient Temperature Range	-55		+150	$^{\circ}C$	
Soldering Temperature		+260		$^{\circ}C$	
ESD Protection	4 kV HBM, 400V MM, 2 kV CDM				

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ESD Sensitive

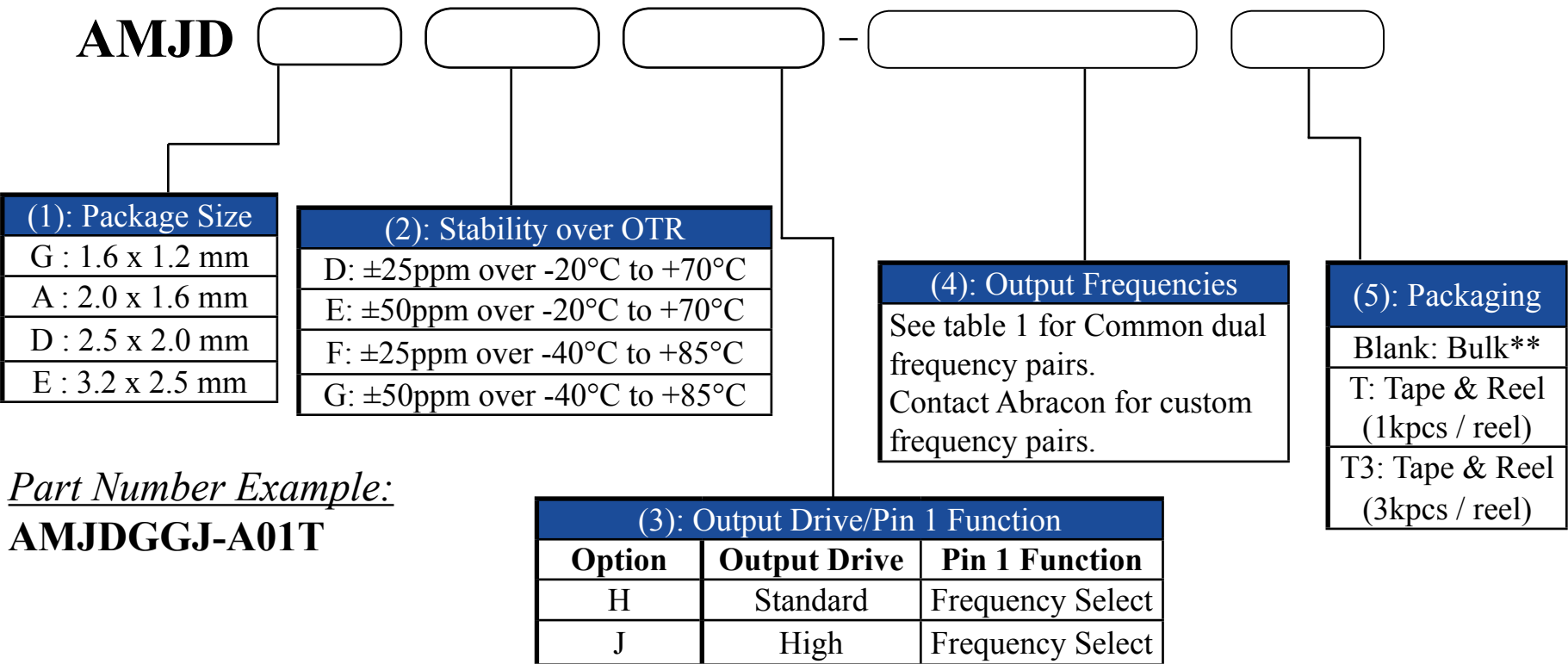


RoHS/RoHS II Compliant

MSL = MSL 1

1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

OPTIONS AND PART IDENTIFICATION



Frequency Code	Frequency 1	Frequency 2	Frequency Code	Frequency 1	Frequency 2
A01	20.000 MHz	25.000 MHz	A09	24.000 MHz	48.000 MHz
A02	50.000 MHz	25.000 MHz	A10	48.000MHz	50.000MHz
A03	40.000 MHz	80.000 MHz	A11	50.000 MHz	100.000 MHz
A04	74.250 MHz	74.1758 MHz	A12	75.000 MHz	100.000 MHz
A05	25.000 MHz	27.000 MHz	A13	6.16791 MHz	6.1298496 MHz
A06	26.000 MHz	27.000 MHz	A14	27.000 MHz	32.000 MHz
A07	19.440 MHz	25.000 MHz	A15	25.000 MHz	32.000 MHz
A08	12.000 MHz	24.000 MHz	A16	12.000 MHz	48.000 MHz

**MOQ per package:
1.6x1.2mm: 100pcs/bag
2.0x1.6mm: 100pcs/bag
2.5x2.0mm: 140 pcs/tube
3.2x2.5mm: 110 pcs/tube

For Quick turn-around programmable sample orders less than MOQ represented above:
Due to the immediate availability of stock and the qty of the order, the parts may be delivered as Cut Tape, Loose parts in Antistatic Bag or in Tube(s).

For orders equal to or greater than MOQ and less than 1000pcs:
Due to packaging, the order must be a multiple of MOQ per package size above

For orders equal to or greater than 1000pcs:
Bulk is not an option. Please refer to tape and reel packaging.

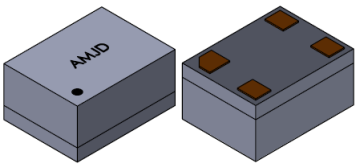


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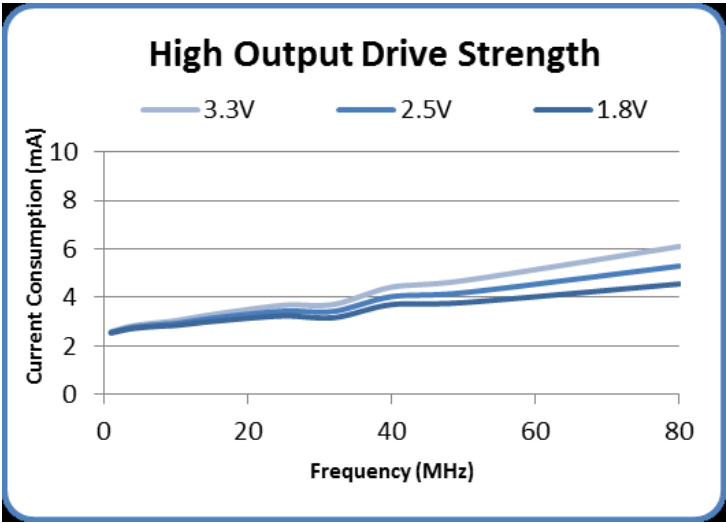
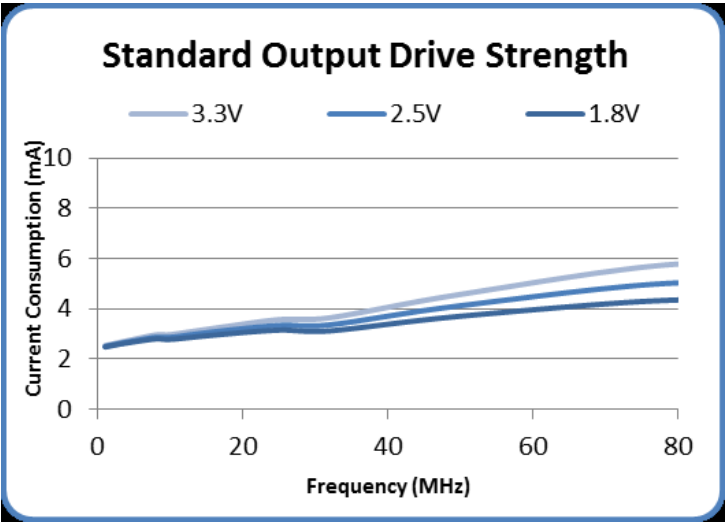
RoHS/RoHS II Compliant

MSL = MSL 1

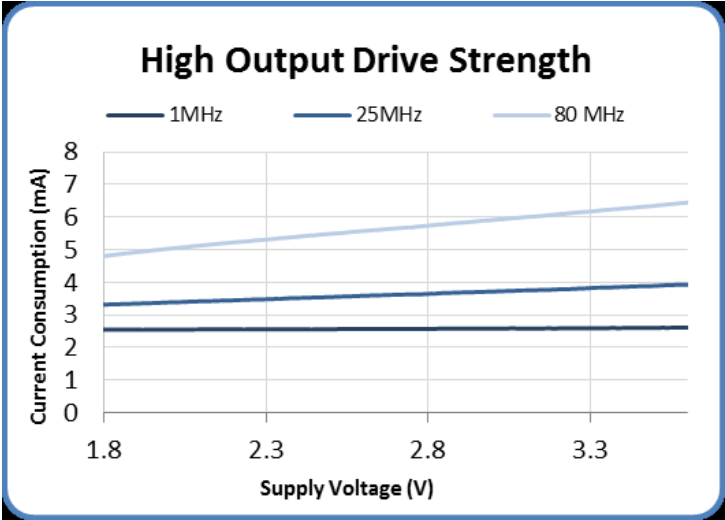
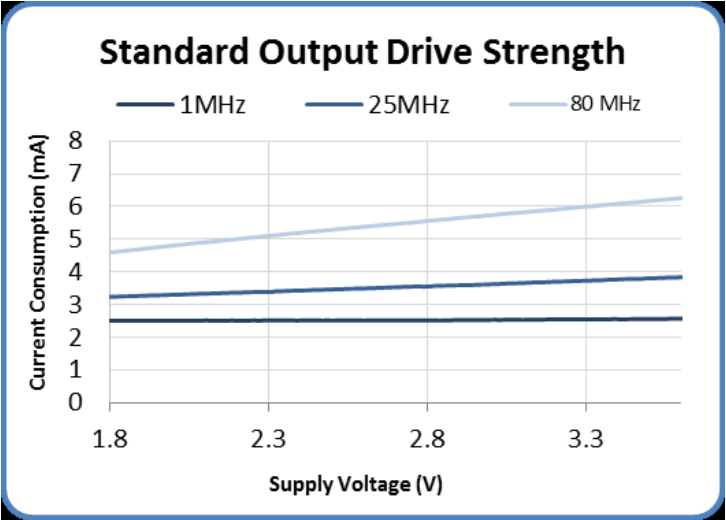
1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

TYPICAL PERFORMANCE DATA @ 25°C ± 3°C

Current Consumption vs Frequency



Current Consumption vs Supply Voltage



PINFUNCTIONS

Pin Number	Pin Name	Description
1	FS	Frequency Select ^{Note 1&3} : High or Open = Frequency 1 Low = Frequency 2
2	GND	Power Supply Ground
3	Output	Oscillator Clock Output
4	V _{DD}	Power Supply ^{Note 2}

Notes :

1. If pin 1 is high or floating, frequency 1 will be engaged on pin 3. If pin 1 is low, frequency 2 will be engaged on pin 3.
2. Bypass with 0.1 μ F capacitor placed as close to V_{DD} pin as possible.
3. 300 K Ω internal pull-up resistor present on pin 1.

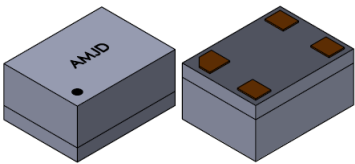


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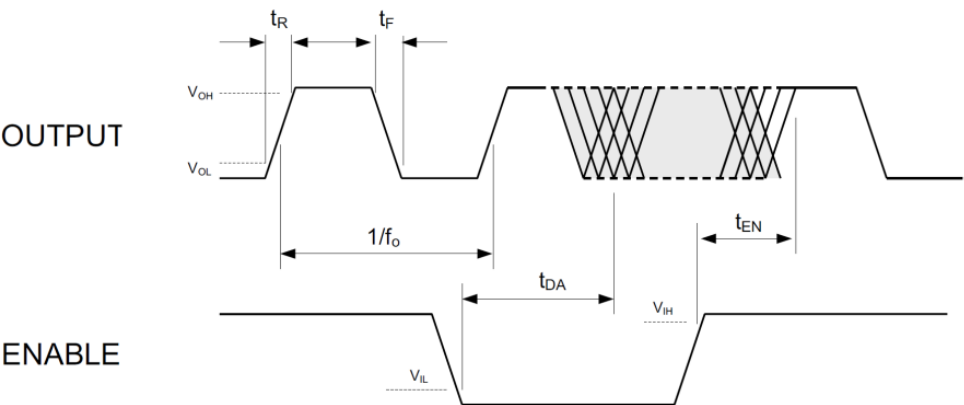
1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

OUTPUT BUFFER OPTIONS

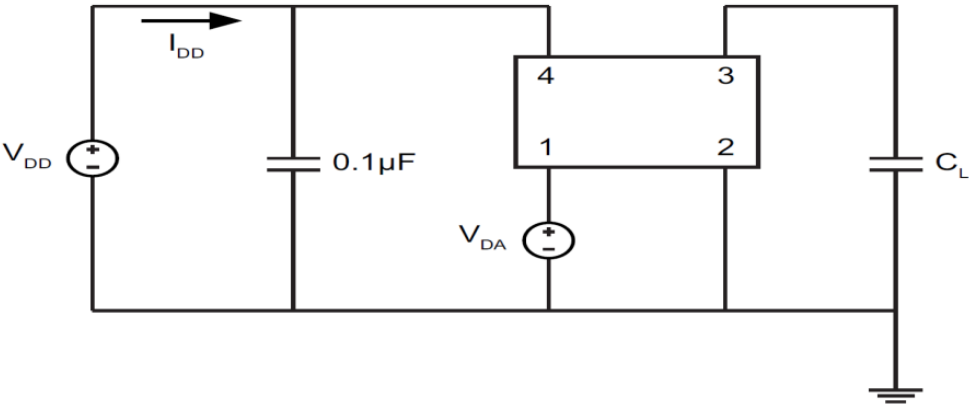
The AMJD Series is available in multiple output driver configurations. The standard-drive and high-drive deliver respective output currents of greater than 3 mA and 6 mA at 20% to 80% of the supply voltage. For loads of 15 pF or higher, the high-drive option is recommended.

DIAGRAMS

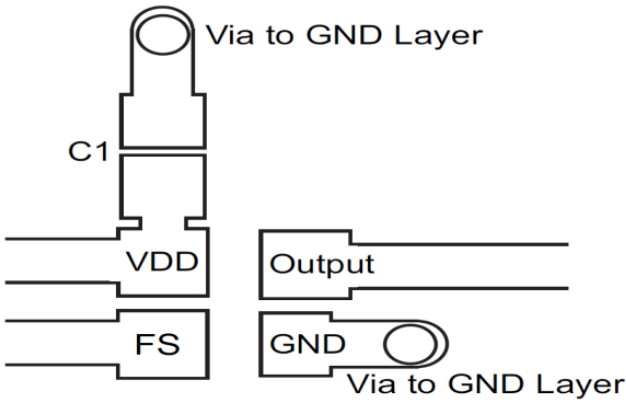
Output Waveform



Test Circuit



Recommended Board Layout

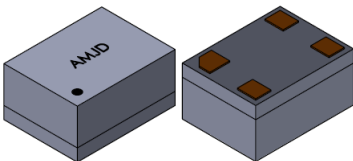


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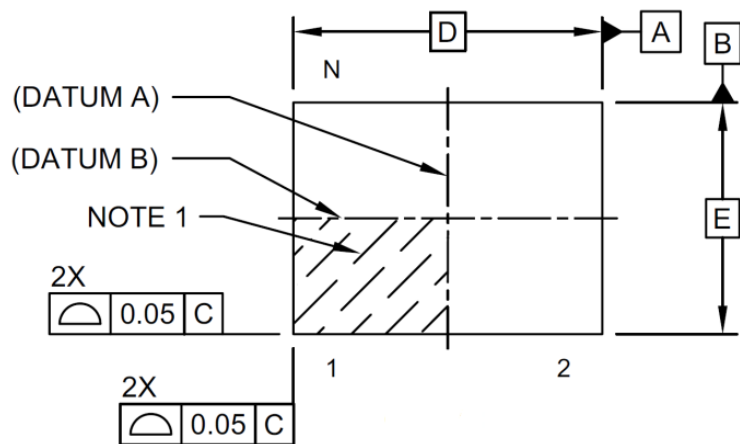
RoHS/RoHS II Compliant

1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm
MSL = MSL 1

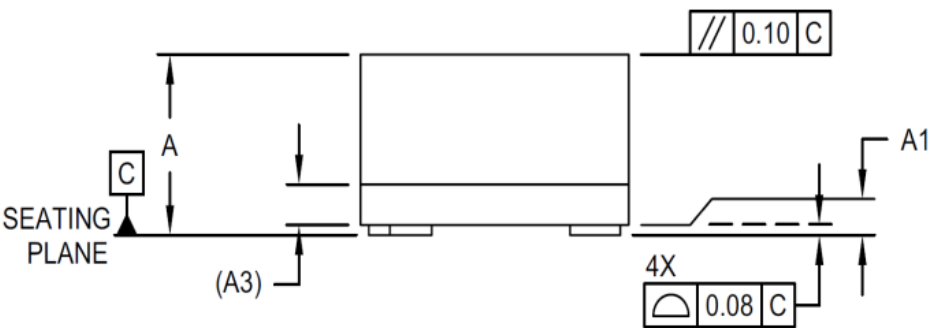
MECHANICAL DIMENSIONS

1.6 x 1.2 mm VFLGA Package Outline

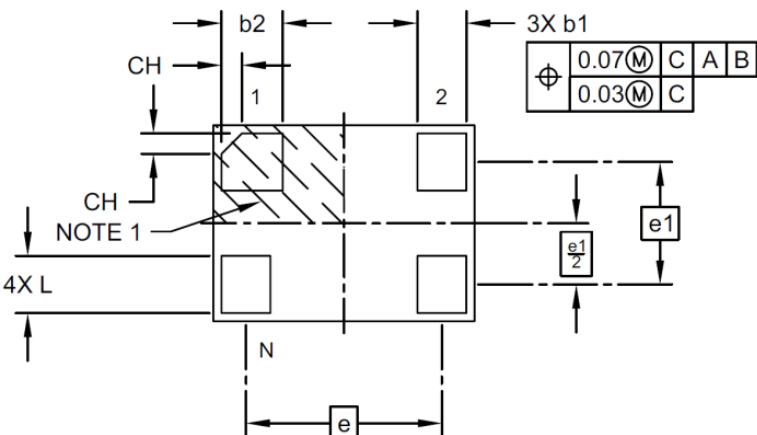
Top View



Side View



Bottom View



Description	Marker	Dimensions (mm)
Number of Terminals	N	4
Terminal Pitch	e	1.20 BSC
Terminal Pitch	e1	0.75 BSC
Overall Height	A	0.84 ± 0.05
Standoff*	A1	.02
Substrate Thickness (with Terminals)	A3	0.20REF
Overall Length	D	1.60BSC
Overall Width	E	1.20BSC
Terminal Width	b1	0.30 ± 0.05
Terminal Width	b2	0.375 ± 0.05
Terminal Length	L	0.35 ± 0.05
Terminal 1 Index Chamfer	CH	0.125

*Standoff max .05 mm and min 0.00 mm

Dimensioning and tolerance per ASME Y14.5M
BSC: Basic Dimension. Theoretically exact value shown without tolerances
REF: Reference Dimension, usually without tolerance, for information purposes only

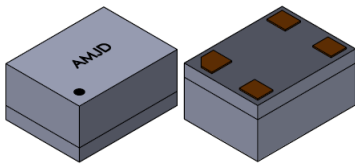


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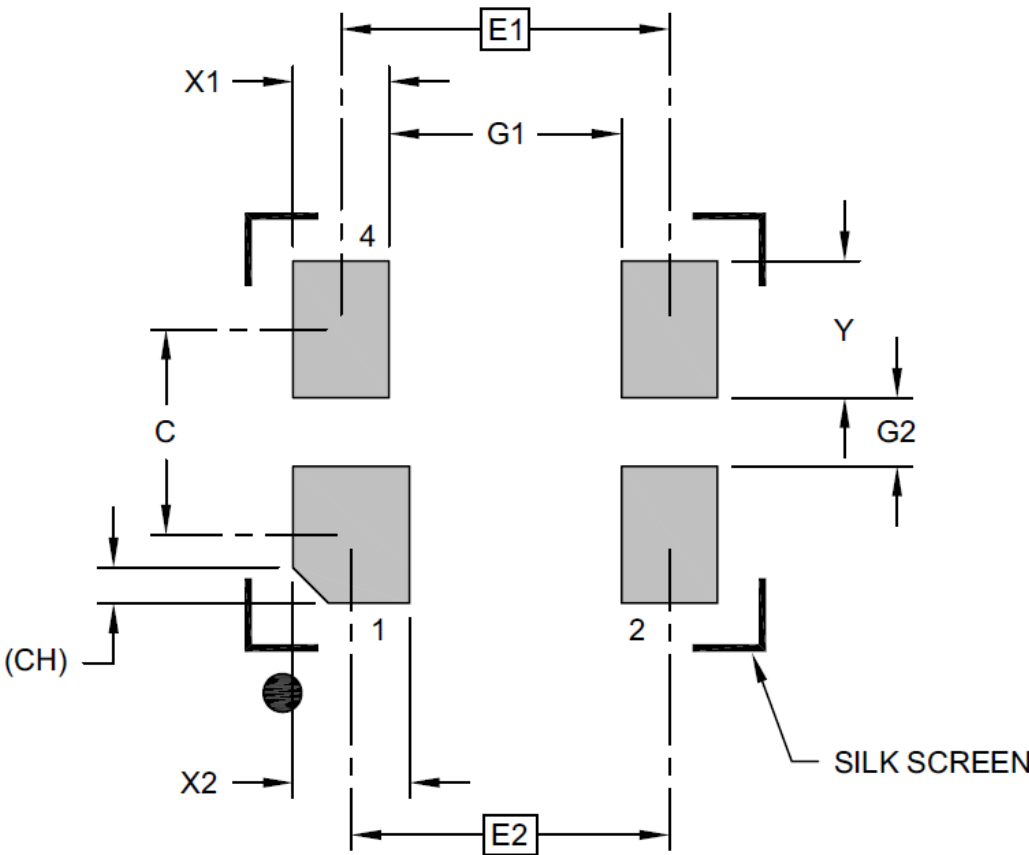
RoHS/RoHS II Compliant

1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

MSL = MSL 1

MECHANICAL DIMENSIONS

Recommended Landing Pattern



Description	Marker	Max	Typ	Max	Unit
Contact Pitch	E1	1.20 BSC			mm
Contact Pitch	E2	1.16 BSC			
Contact Spacing	C		0.75		
Contact Width	X1			0.35	
Contact Width	X2			0.43	
Contact Pad Length	Y			0.50	
Space Between Contacts	G1	0.85			
Space Between Contacts	G2	0.25			
Contact 1 Index Chamfer	CH	0.13 x 45° REF			

Dimensioning and tolerance per ASME Y14.5M

BSC: Basic Dimension. Theoretically exact value shown without tolerances

REF: Reference Dimension, usually without tolerance, for information purposes only

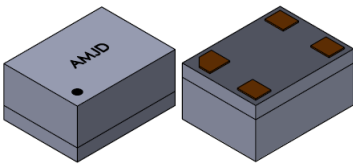


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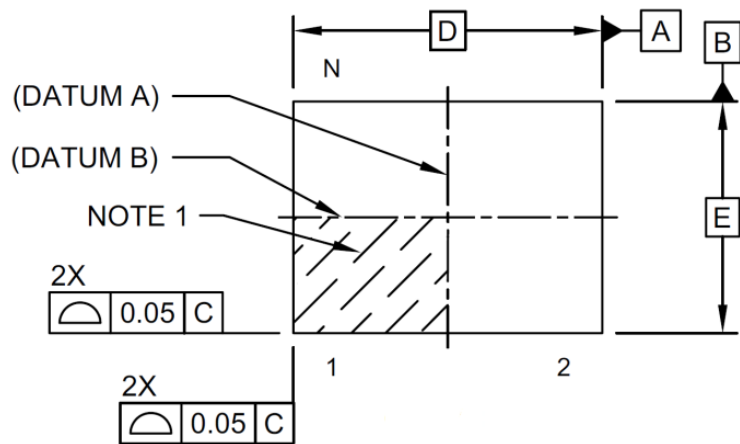
MSL = MSL 1

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2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

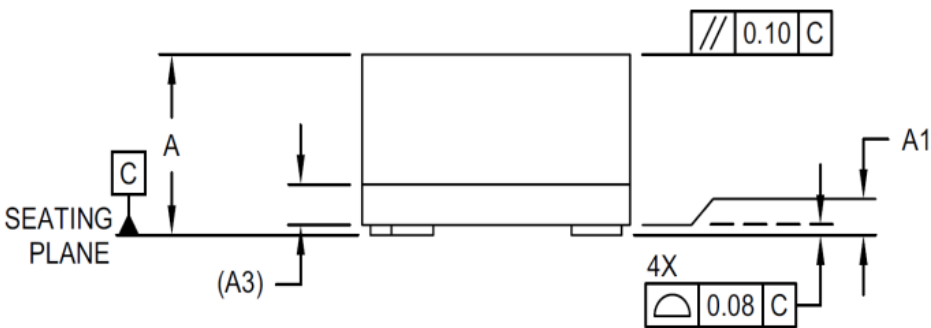
MECHANICAL DIMENSIONS

2.0 x 1.6 mm VFLGA Package Outline

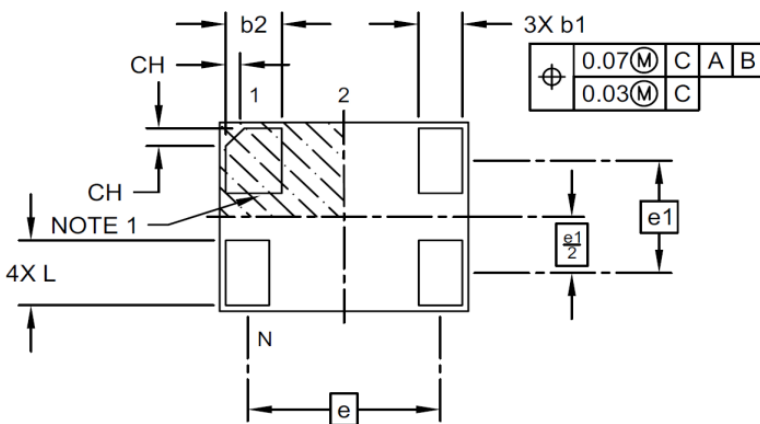
Top View



Side View



Bottom View



Description	Marker	Dimensions (mm)
Number of Terminals	N	4
Terminal Pitch	e	1.55 BSC
Terminal Pitch	e1	0.95 BSC
Overall Height	A	0.84 ± 0.05
Standoff*	A1	.02
Substrate Thickness (with Terminals)	A3	0.20 REF
Overall Length	D	2.00 BSC
Overall Width	E	1.60 BSC
Terminal Width	b1	0.35 ± 0.05
Terminal Width	b2	0.45 ± 0.05
Terminal Length	L	0.55 ± 0.05
Terminal 1 Index Chamfer	CH	0.15

*Standoff max .05 mm and min 0.00 mm

Dimensioning and tolerance per ASME Y14.5M
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REF: Reference Dimension, usually without tolerance, for information purposes only

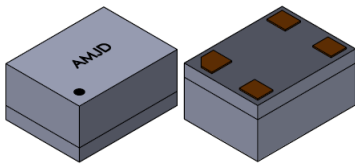


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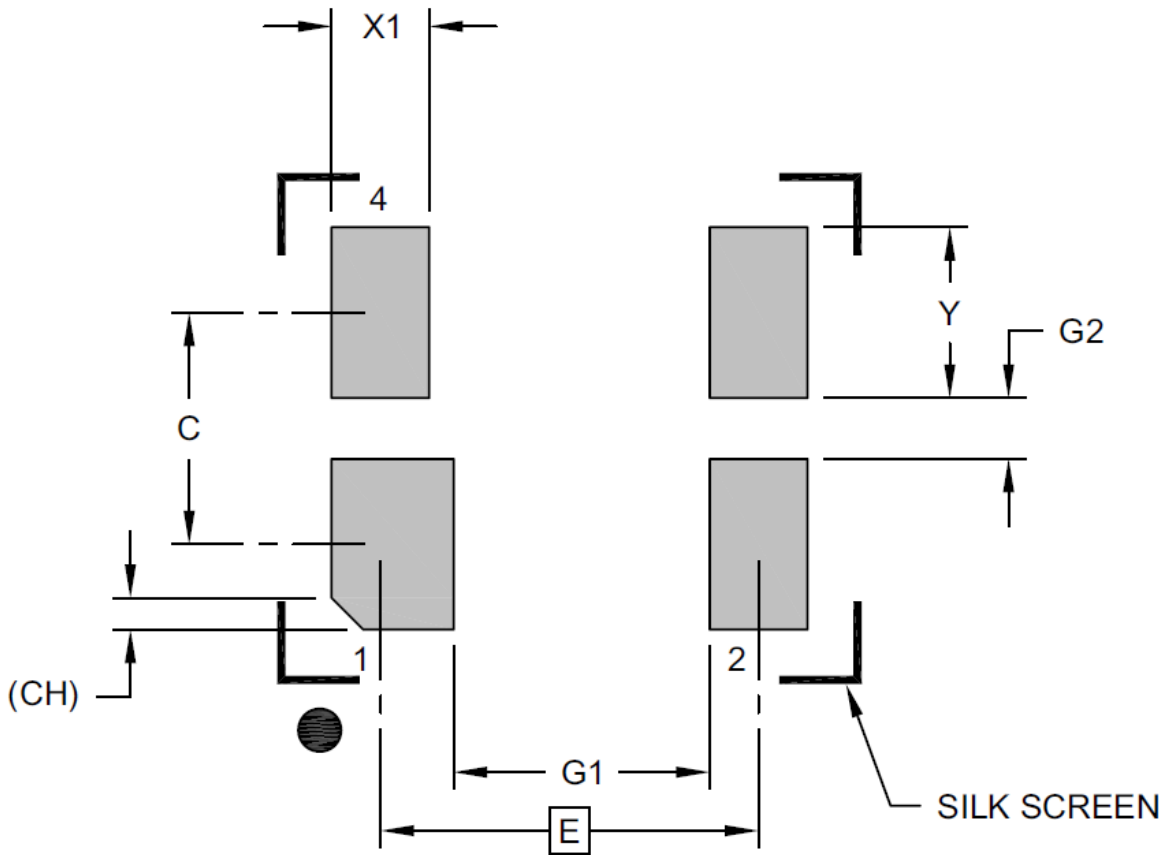
RoHS/RoHS II Compliant

MSL = MSL 1

1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

MECHANICAL DIMENSIONS

Recommended Landing Pattern



Description	Marker	Max	Typ	Max	Unit
Contact Pitch	E2	1.55 BSC			mm
Contact Spacing	C		0.95		
Contact Width	X1			0.50	
Contact Width	X2			0.40	
Contact Pad Length	Y			0.70	
Space Between Contacts	G1	1.05			
Space Between Contacts	G2	0.25			
Contact 1 Index Chamfer	CH	0.13 x 45° REF			

Dimensioning and tolerance per ASME Y14.5M

BSC: Basic Dimension. Theoretically exact value shown without tolerances

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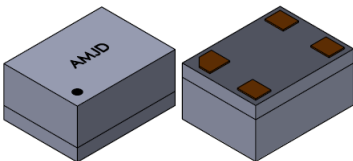


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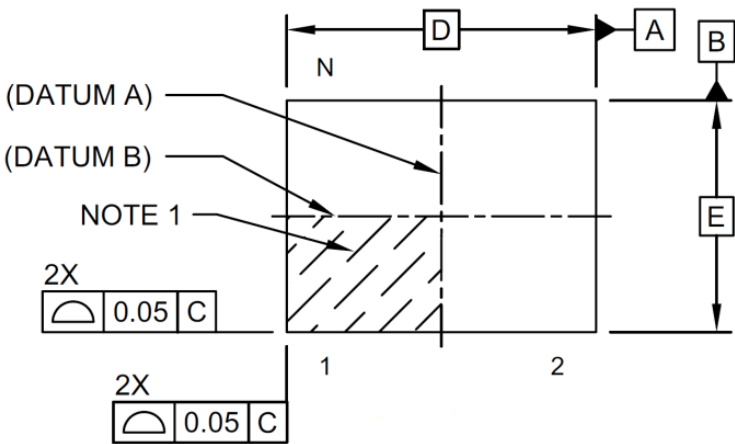
MSL = MSL 1

1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

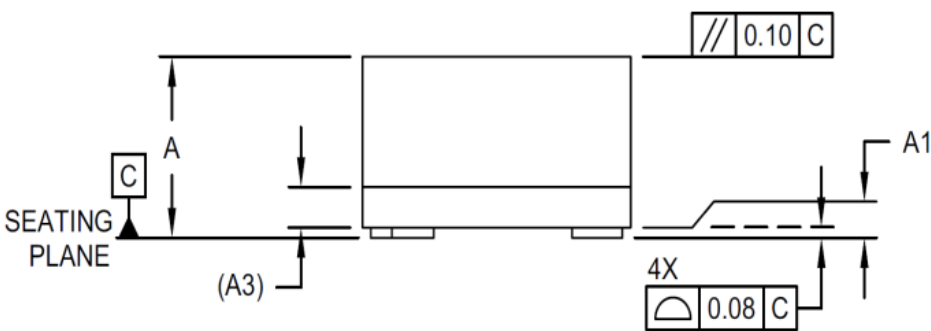
MECHANICAL DIMENSIONS

2.5 x 2.0 mm VLGA Package Outline

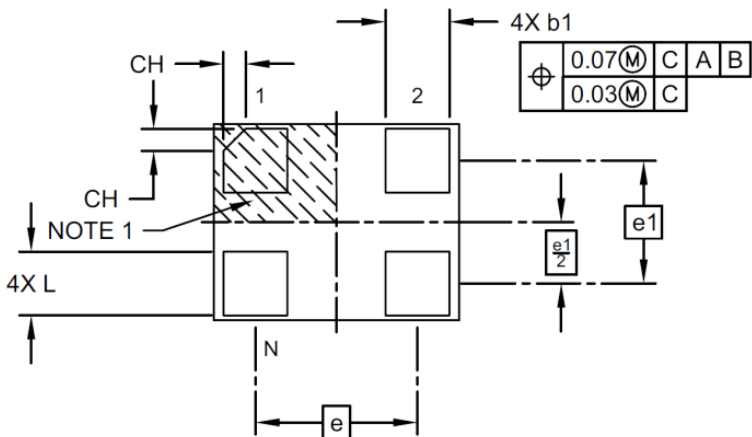
Top View



Side View



Bottom View



Description	Marker	Dimensions (mm)
Number of Terminals	N	4
Terminal Pitch	e	1.65 BSC
Terminal Pitch	e1	1.25 BSC
Overall Height	A	0.84 ± 0.05
Standoff*	A1	.02
Substrate Thickness (with Terminals)	A3	0.20REF
Overall Length	D	2.50BSC
Overall Width	E	2.00BSC
Terminal Width	b1	0.65± 0.05
Terminal Length	L	0.65 ± 0.05
Terminal 1 Index Chamfer	CH	0.225

*Standoff max .05 mm and min 0.00 mm

Dimensioning and tolerance per ASME Y14.5M
BSC: Basic Dimension. Theoretically exact value shown without tolerances
REF: Reference Dimension, usually without tolerance, for information purposes only

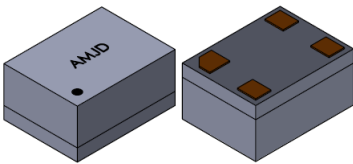


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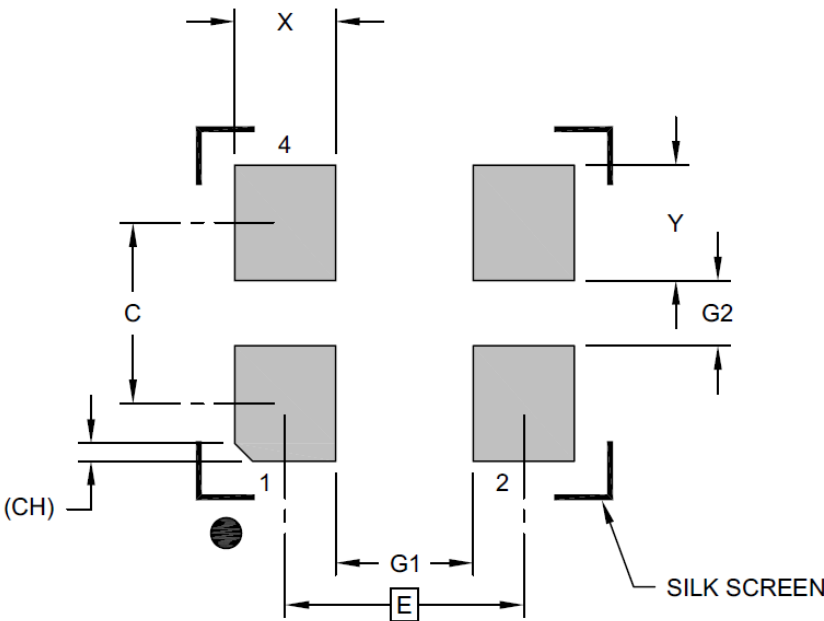
RoHS/RoHS II Compliant

MSL = MSL 1

1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

MECHANICAL DIMENSIONS

Recommended Landing Pattern



Description	Marker	Max	Typ	Max	Unit
Contact Pitch	E	1.65 BSC			mm
Contact Spacing	C		1.25		
Contact Width	X1			0.70	
Contact Width	X2			0.80	
Contact Pad Length	Y			0.50	
Space Between Contacts	G1	0.95			
Space Between Contacts	G2	0.45			
Contact 1 Index Chamfer	CH	0.13 x 45° REF			

Dimensioning and tolerance per ASME Y14.5M

BSC: Basic Dimension. Theoretically exact value shown without tolerances

REF: Reference Dimension, usually without tolerance, for information purposes only



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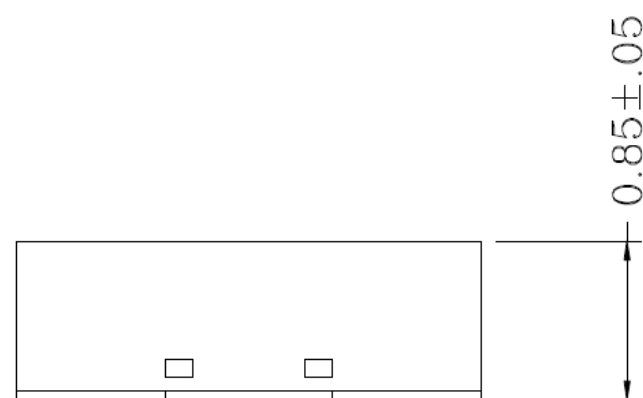
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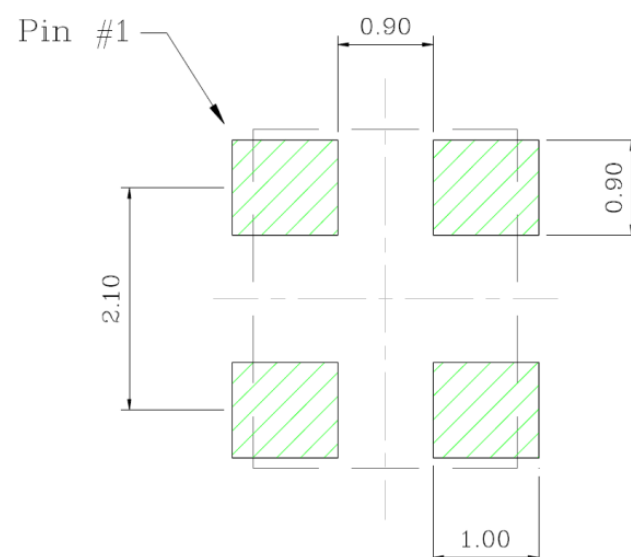

$$\text{MSL} = \text{MSL } 1$$

3.2 x 2.5 mm DFN Package Outline

Side View



Recommended Landing Pattern

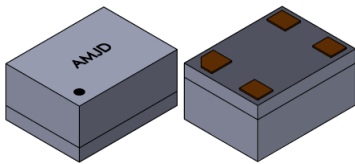


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FREQUENCY SELECTABLE MEMS OSCILLATORS



AMJD-SERIES



ESD Sensitive



RoHS/RoHS II Compliant

MSL = MSL 1

1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

Reflow Profile [JEDEC J-STD-020]

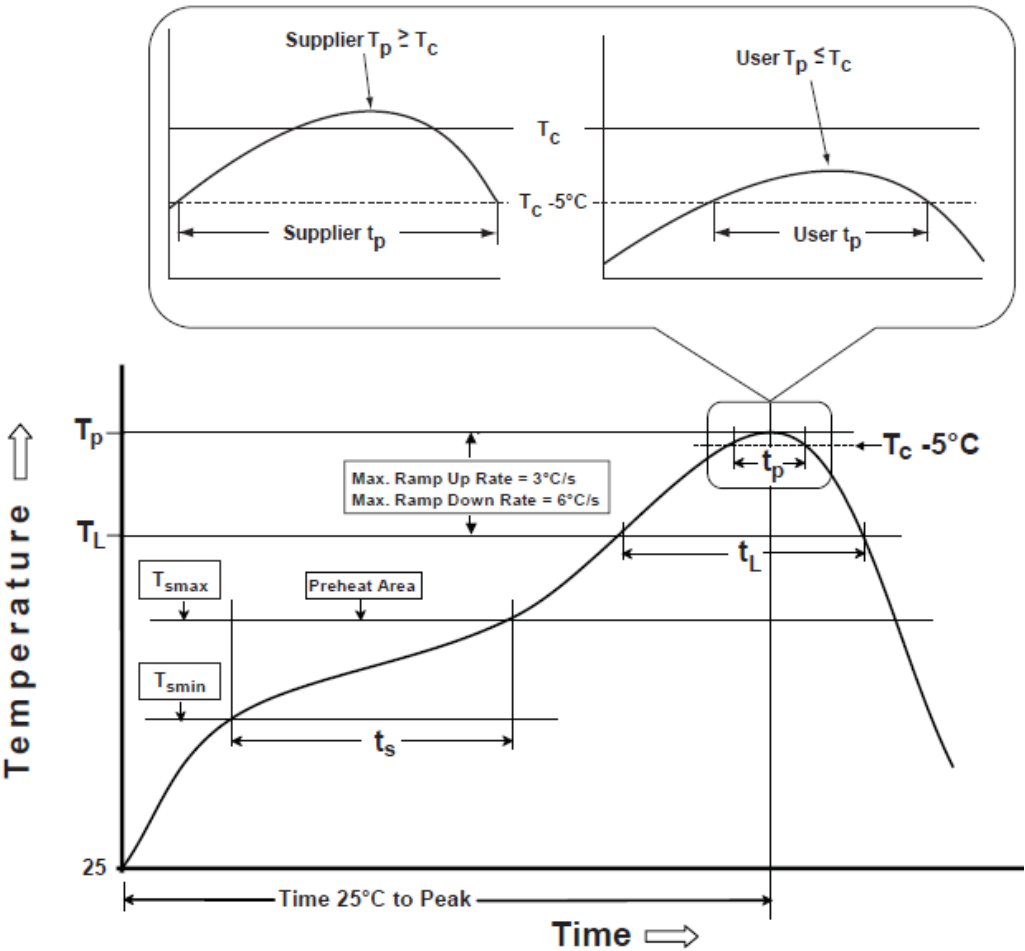


Table 1

SnPb Eutectic Process
Classification Temperatures (T_c)

Package Thickness	Volume mm ³ <350	Volume mm ³ >350
<2.5 mm	235 °C	220 °C
>2.5 mm	220 °C	220 °C

Table 2

Pb-Free Process
Classification Temperatures (T_c)

Package Thickness	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
<1.6 mm	260 °C	260 °C	260 °C
1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
>2.5 mm	250 °C	245 °C	245 °C

Profile Feature	Sn-Pb Eutectic Assembly	Pb-Free Assembly
Preheat/ soak		
Temperature minimum (T_{smin})	100°C	150°C
Temperature maximum (T_{smax})	150°C	200°C
Time (T_{smin} to T_{smax}) (t_s)	60 - 120 sec.	60 - 120 sec.
Average ramp-up rate (T_{smax} to T_p)	3°C/sec. max	3°C/sec. max
Liquidous temperature (T_L)	183°C	217°C
Time at liquidous (t_L)	60 - 150 sec.	60 - 150 sec.
Peak package body temperature (T_p)*	see Table 1	see Table 2
Time (t_p)** within 5°C of the specified classification temperature (T_c)	20 sec.	30 sec.
Ramp-down rate (T_p to T_{smax})	6°C/sec. max	6°C/sec. max
Time 25°C to peak temperature	6 min. max	8 min. max
Reflow cycles	2 max	2 max

*Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

**Tolerance for time at peak profile temperature (t_p) is defined as supplier minimum and a user maximum.

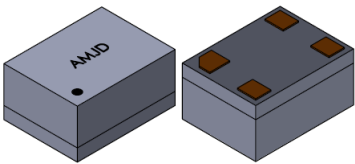


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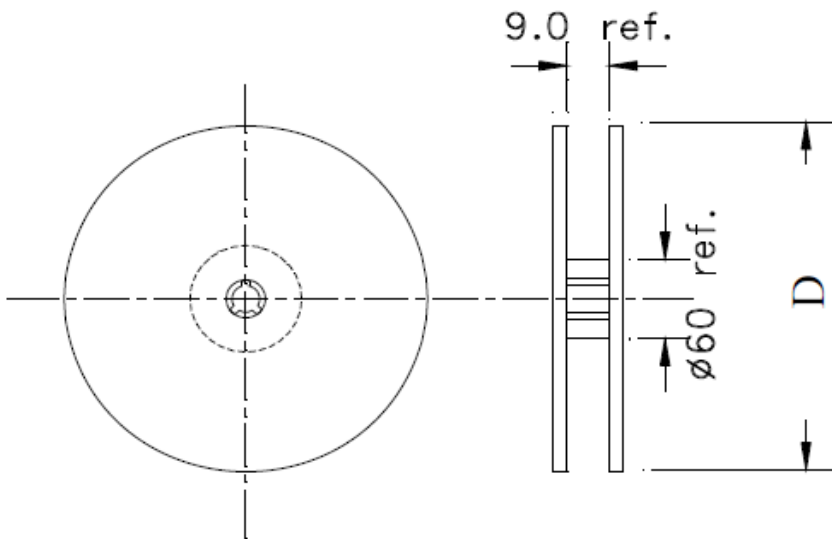
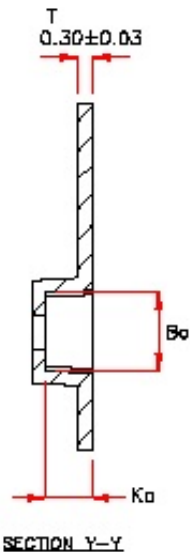
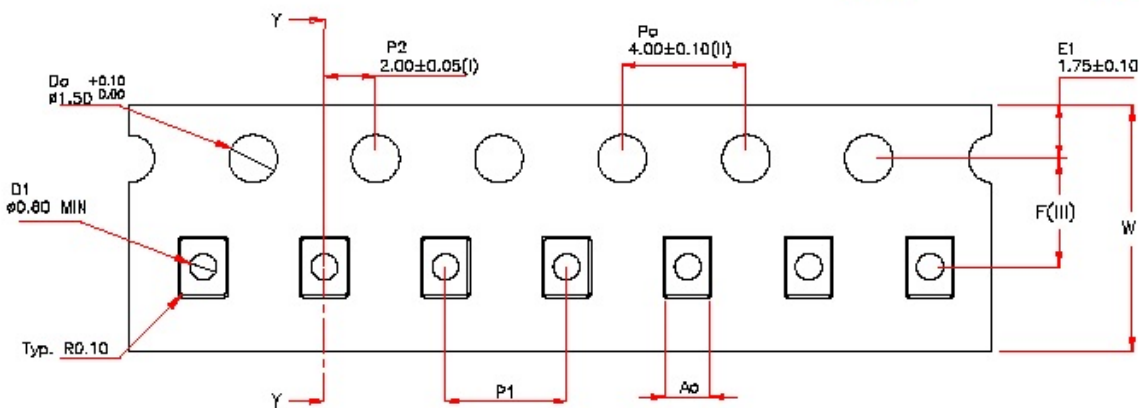
MSL = MSL 1

1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

PACKAGING

Bulk MOQ= 100pcs/Bag*
T= 1,000pcs/reel (D=180mm)
T3= 3,000pcs/reel (D=180mm)

Affected Package Size:
1.6 mm x 1.2 mm VFLGA



A ₀	1.40 ± 0.05
B ₀	1.80 ± 0.05
K ₀	1.05 ± 0.05
F	3.50 ± 0.05
P ₁	4.00 ± 0.10
W	8.00 +0.30/-0.10

Dimensions : mm

* For Quick turn-around programmable sample orders less than MOQ represented above:
Due to the immediate availability of stock and the qty of the order, the parts may be delivered as Cut Tape,
Loose parts in Antistatic Bag or in Tube(s).

For orders equal to or greater than MOQ and less than 1000pcs:
Due to packaging, the order must be a multiple of MOQ per package size above

For orders equal to or greater than 1000pcs:
Bulk is not an option. Please refer to tape and reel packaging.

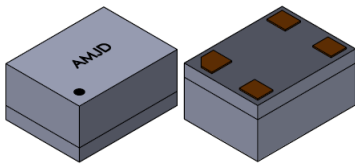


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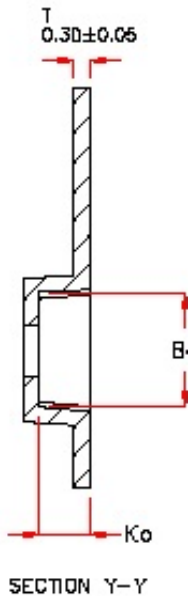
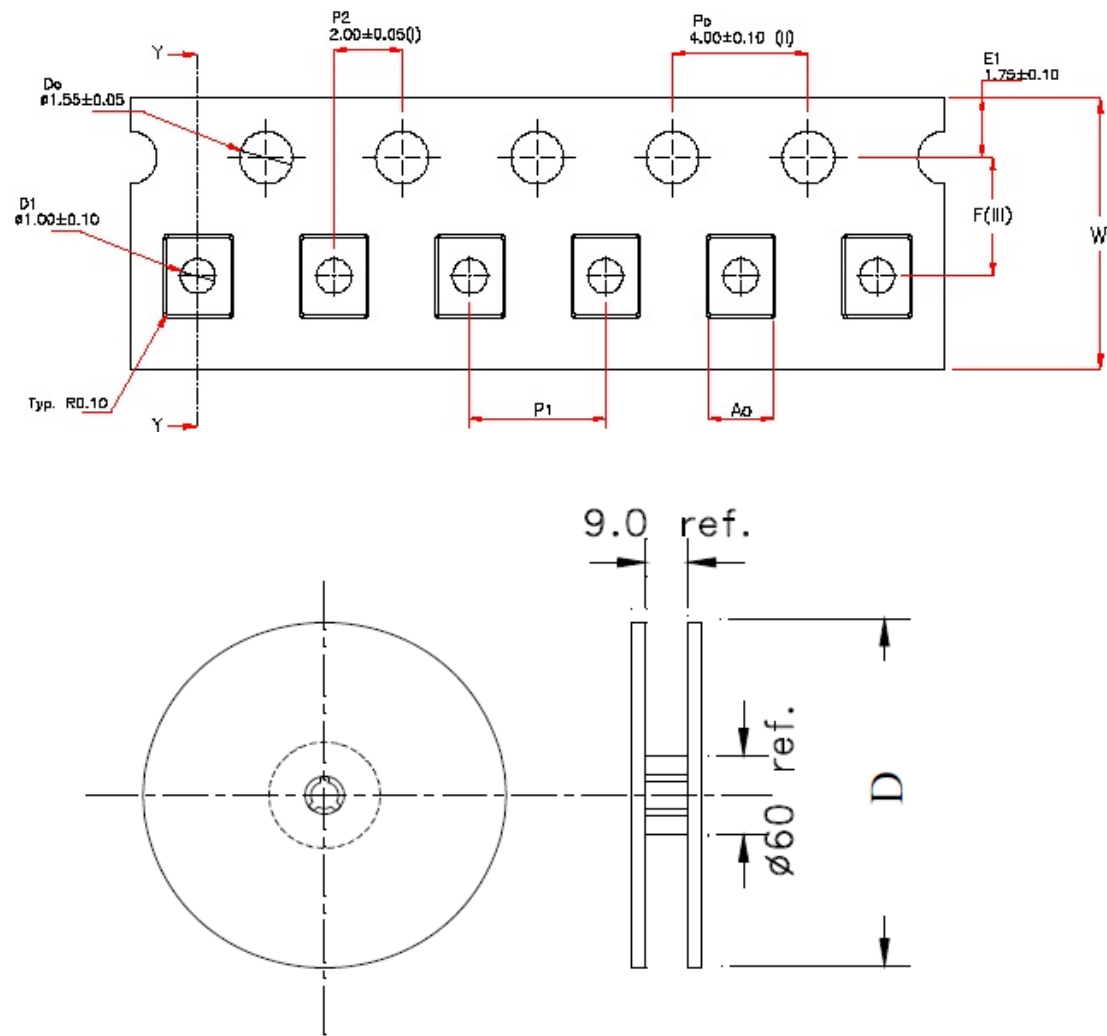
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1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

PACKAGING

Bulk MOQ= 100pcs/Bag*
T= 1,000pcs/reel (D=180mm)
T3= 3,000pcs/reel (D=180mm)

Affected Package Sizes:
2.0 mm x 1.6 mm VFLGA



A ₀	1.90 ± 0.05
B ₀	2.30 ± 0.05
K ₀	1.05 ± 0.05
F	3.50 ± 0.05
P ₁	4.00 ± 0.10
W	8.00 +0.30/-0.10

Dimensions : mm

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Due to the immediate availability of stock and the qty of the order, the parts may be delivered as Cut Tape,
Loose parts in Antistatic Bag or in Tube(s).

For orders equal to or greater than MOQ and less than 1000pcs:
Due to packaging, the order must be a multiple of MOQ per package size above

For orders equal to or greater than 1000pcs:
Bulk is not an option. Please refer to tape and reel packaging.

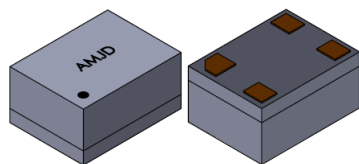


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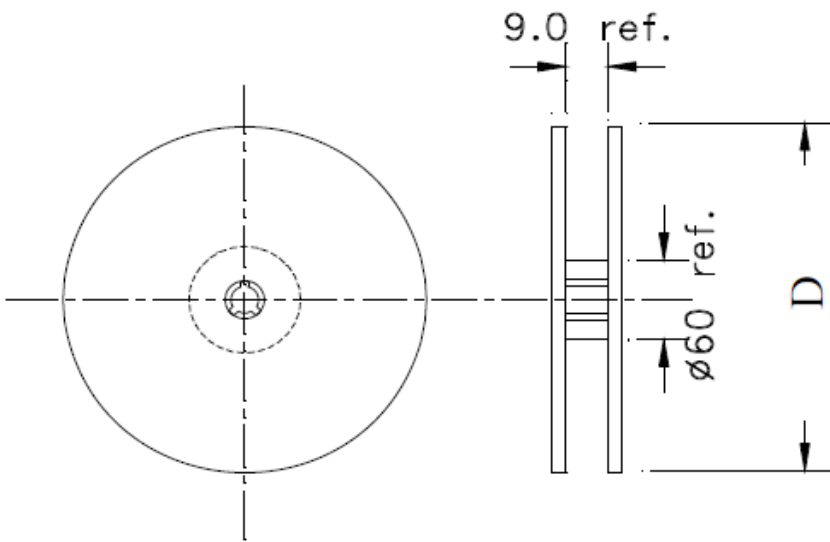
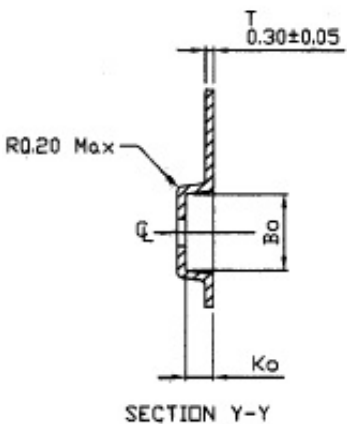
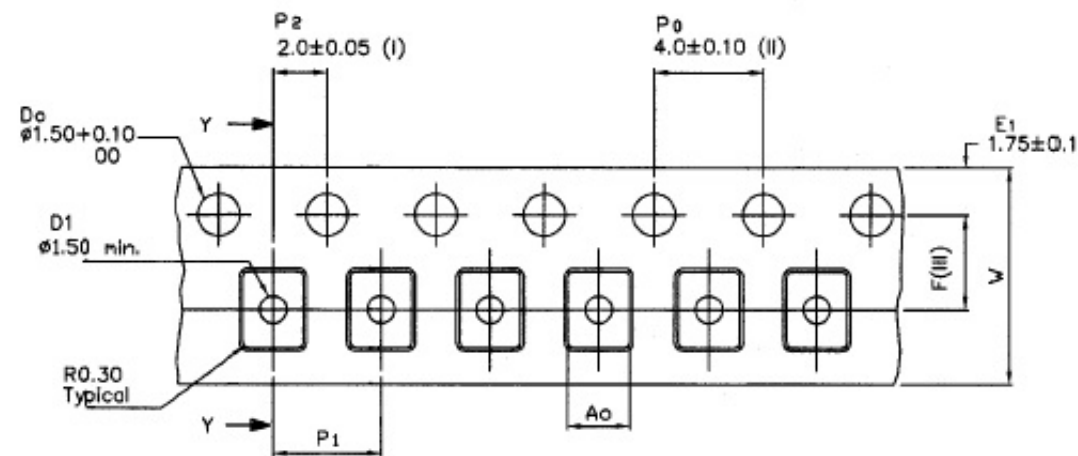
1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

MSL = MSL 1

PACKAGING

Bulk MOQ= 140pcs/Tube*
T= 1,000pcs/reel (D=180mm)
T3= 3,000pcs/reel (D=180mm)

Affected Package Sizes:
2.5 mm x 2.0 mm VLGA



A ₀	2.25± 0.05
B ₀	2.80± 0.05
K ₀	1.10 ± 0.05
F	3.50 ± 0.05
P ₁	4.00 ± 0.10
W	8.00 +0.30/-0.10

Dimensions : mm

* For Quick turn-around programmable sample orders less than MOQ represented above:
Due to the immediate availability of stock and the qty of the order, the parts may be delivered as Cut Tape,
Loose parts in Antistatic Bag or in Tube(s).

For orders equal to or greater than MOQ and less than 1000pcs:
Due to packaging, the order must be a multiple of MOQ per package size above

For orders equal to or greater than 1000pcs:
Bulk is not an option. Please refer to tape and reel packaging.

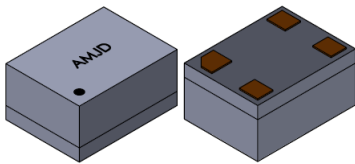


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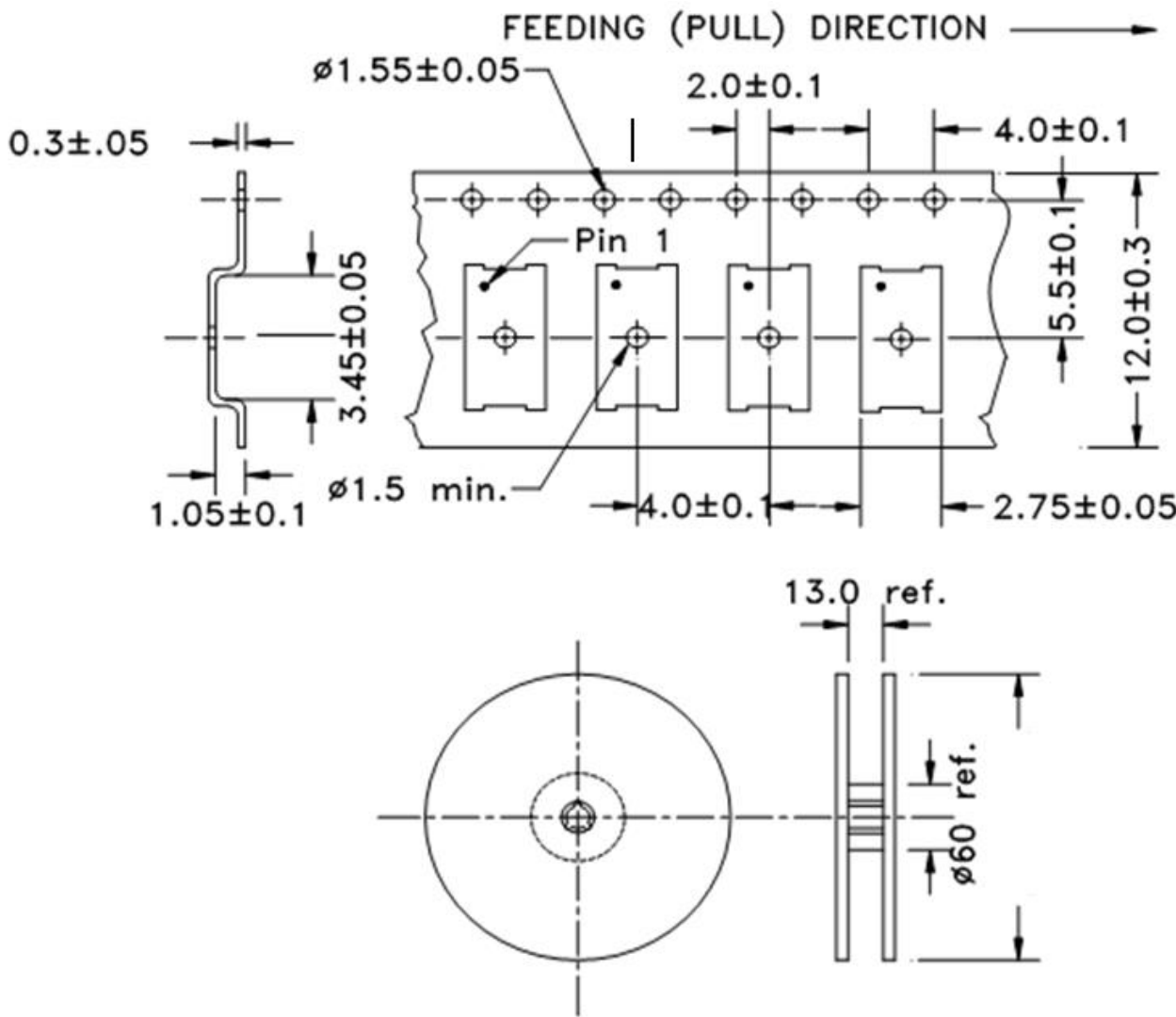
MSL = MSL 1

1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

PACKAGING

Bulk MOQ= 110pcs/Tube*
T= 1,000pcs/reel (D=180mm)
T3= 3,000pcs/reel (D=180mm)

Affected Package Sizes:
3.2 mm x 2.5 mm DFN



Dimensions : mm

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Due to the immediate availability of stock and the qty of the order, the parts may be delivered as Cut Tape,
Loose parts in Antistatic Bag or in Tube(s).

For orders equal to or greater than MOQ and less than 1000pcs:
Due to packaging, the order must be a multiple of MOQ per package size above

For orders equal to or greater than 1000pcs:
Bulk is not an option. Please refer to tape and reel packaging.



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