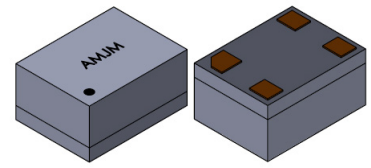
POWER OPTIMIZED MEMS OSCILLATORS



AMJM-SERIES

ESD Sensitive

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

RoHS/RoHS II Compliant

MSL = MSL 1

FEATURES

- 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
- Output enable or ultra-low power standby: 12µA (typ)
- 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 -40ºC to 85ºC

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
Standby Current Consumptions(I_{STBY})			12		µA	V_{DD} = 1.8 V/2.5V
			80			V_{DD} = 3.3 V
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	1st year @25ºC
		-1		+1		Per year after first year
Duty Cycle		45		55	%	
Output Logic Levels	Logic High V_{OH}	0.8*V_{DD}			V	Std Drive option: I = 3mA
						High Drive option: I = 6 mA
	Logic Low V_{OL}			0.2*V_{DD}		Std Drive option: I = -3mA
						High Drive option: I = -6 mA
Input Logic Levels	Logic High V_{IH}	0.7*V_{DD}			V	
	Logic Low V_{IL}			0.3*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, @ 25ºC

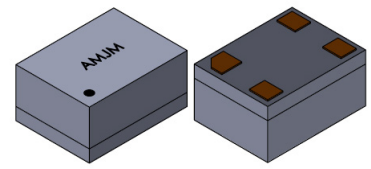
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ESD Sensitive

RoHS/RoHS II Compliant

MSL = MSL 1

ELECTRICAL SPECIFICATIONS

Parameters		Min	Typ.	Max.	Units	Note
Output Enable Time (t_{EN})				1	µs	
Output Disable Time (t_{DA})				200+2period	ns	
Rise (T_r) / Fall (T_f) Time	High Drive 20% ↔ 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% ↔ 80%		1.2	2.0		CL = 10 pF | VDD =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	ºC	
Ambient Operating Temperature	-40		+85	ºC	Industrial
Ambient Operating Temperature	-20		+70	ºC	Extended Commercial
Storage Ambient Temperature Range	-55		+150	ºC	
Soldering Temperature		+260		ºC	
ESD Protection	4 kV HBM, 400V MM, 2 kV CDM				

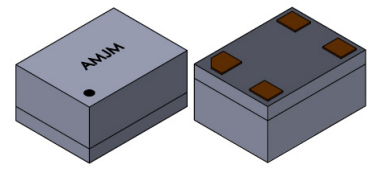
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RoHS/RoHS II Compliant

MSL = MSL 1

OPTIONS AND PART IDENTIFICATION

AMJM [ ] [ ] [ ] – [ ] [ ]

(1): Package Size
G : 1.6 x 1.2 mm
A : 2.0 x 1.6 mm
D : 2.5 x 2.0 mm
E : 3.2 x 2.5 mm

(2): Stability over OTR
D: ±25ppm over -20°C to +70°C
E: ±50ppm over -20°C to +70°C
F: ±25ppm over -40°C to +85°C
G: ±50ppm over -40°C to +85°C

(4): Output Frequencies in MHz
For MHz specify frequency out to **4 digit** accuracy after the decimal: xxx.xxxx e.g. 100.0000

(5): Packaging
Blank: Bulk**
T: Tape & Reel (1kpcs / reel)
T3: Tape & Reel (3kpcs / reel)

(3): Output Drive/Pin 1 Function		
Option	**Output Drive**	**Pin 1 Function**
A	Standard	Output Enable
B	Standard	Standby
K	High	Output Enable
L	High	Standby

Part Number Example:
AMJMGGK-8.0000T

**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.

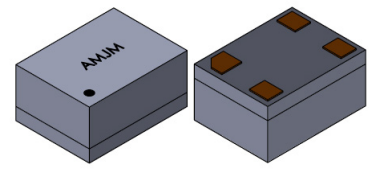
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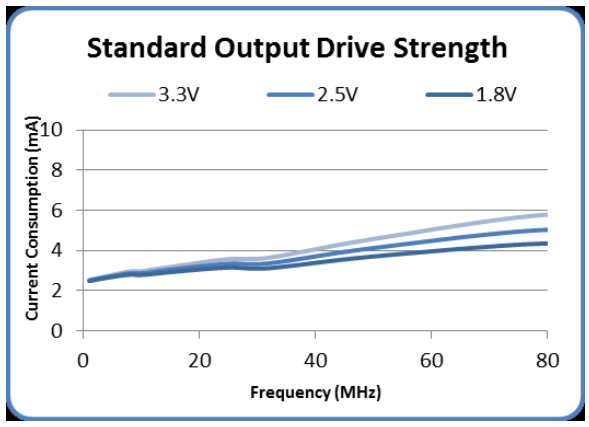
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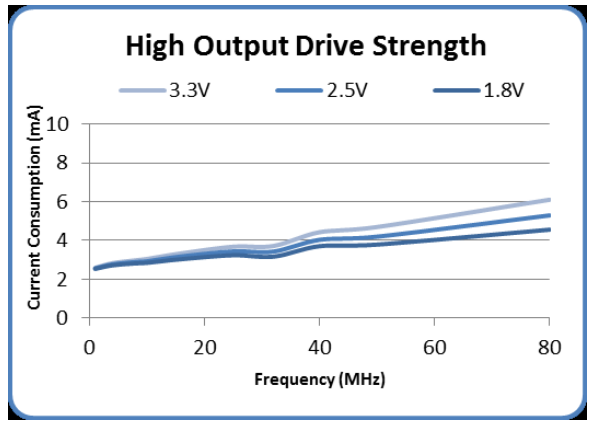
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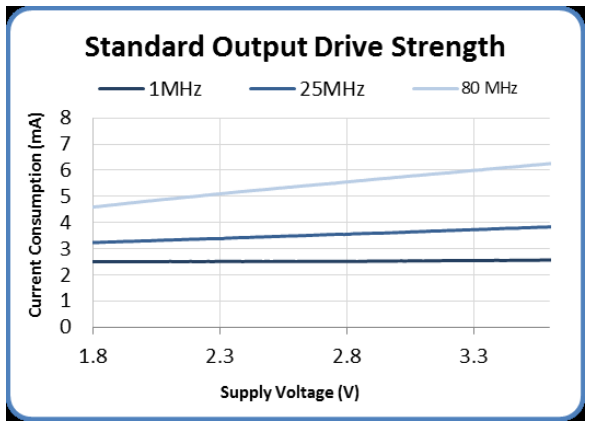
TYPICAL PERFORMANCE DATA @ 25ºC ± 3ºC

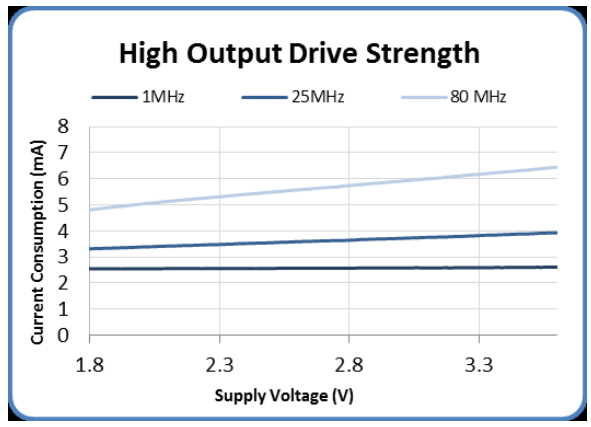
Current Consumption vs Frequency





Current Consumption vs Supply Voltage





PINFUNCTIONS

Pin Number	Pin Name	Description
1	OE	Output Enable Note 1&3: High or Open = Specified Frequency Output Low = Output is high impedance
	STBY	Standby Note 1&3: High or Open = Specified Frequency Output Low = Output is high impedance, Device is in low power mode, Supply current is I_{STBY}
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, there will be frequency output. If pin 1 is low, output will be disengaged.
2. Bypass with 0.1 µF capacitor placed as close to V_{DD} pin as possible.
3. 300 KΩ internal pull-up resistor present on pin 1.

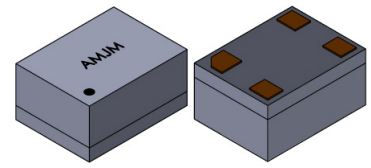
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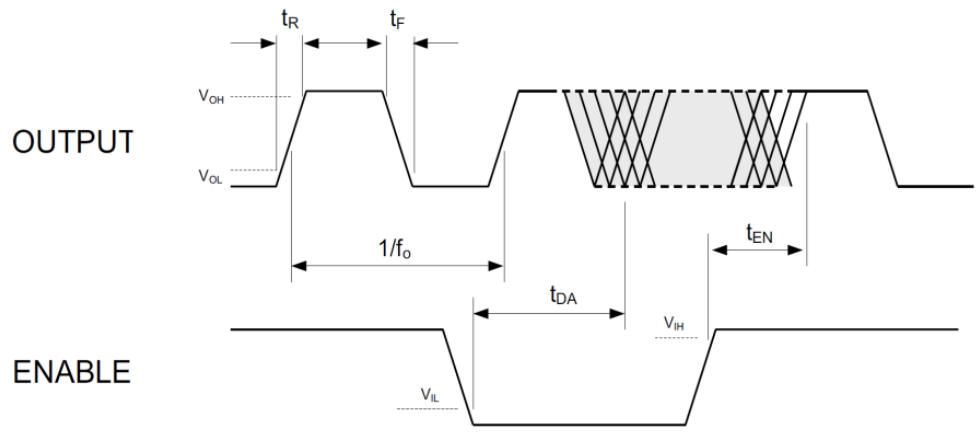
MSL = MSL 1

OUTPUT BUFFER OPTIONS

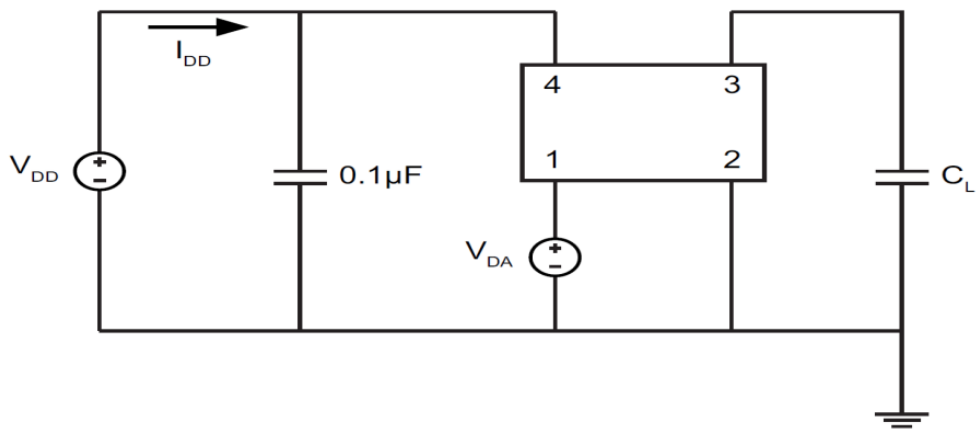
The AMJM Series is available in multiple output driver configurations. The standard-drive and high-drive deliver respective output currents of greater than 3 mA and 6 mA at 20% to 80% of the supply voltage. For loads of 15 pF or higher, the high-drive option is recommended.

DIAGRAMS

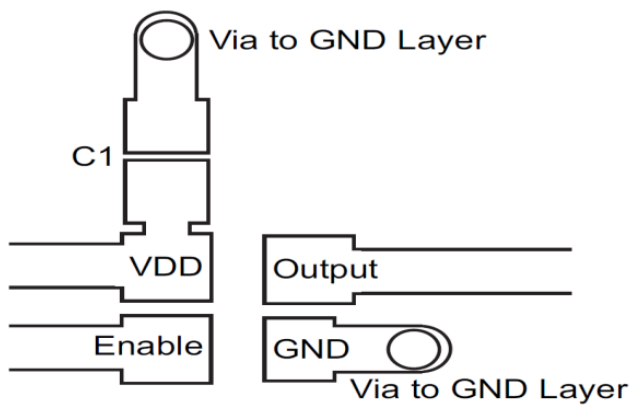
Output Waveform



Test Circuit



Recommended Board Layout



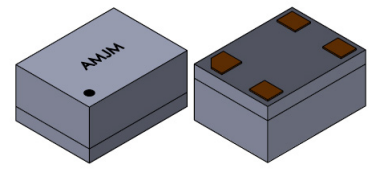
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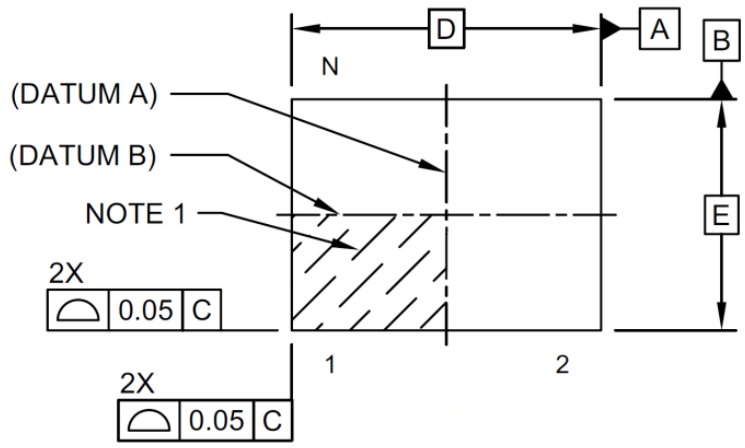
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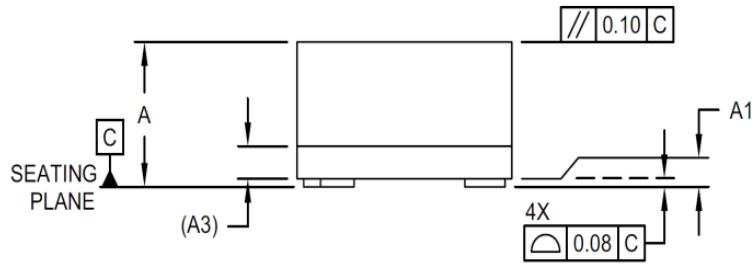
MECHANICAL DIMENSIONS

1.6 x 1.2 mm VFLGA Package Outline

Top View

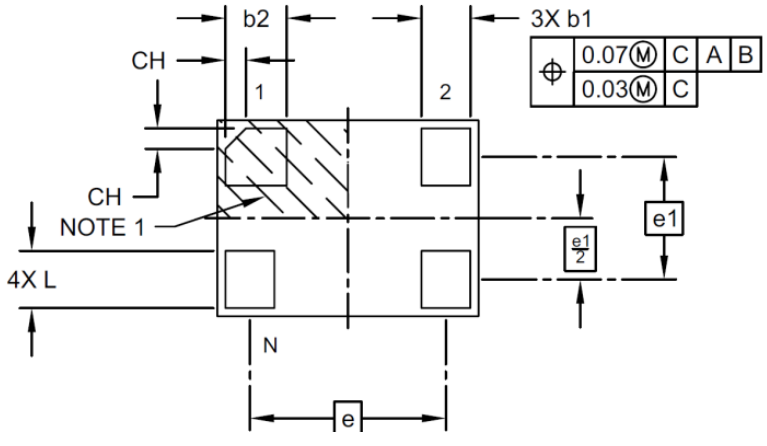


Side View



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

Bottom View



*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
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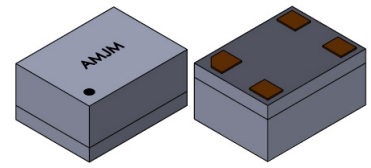
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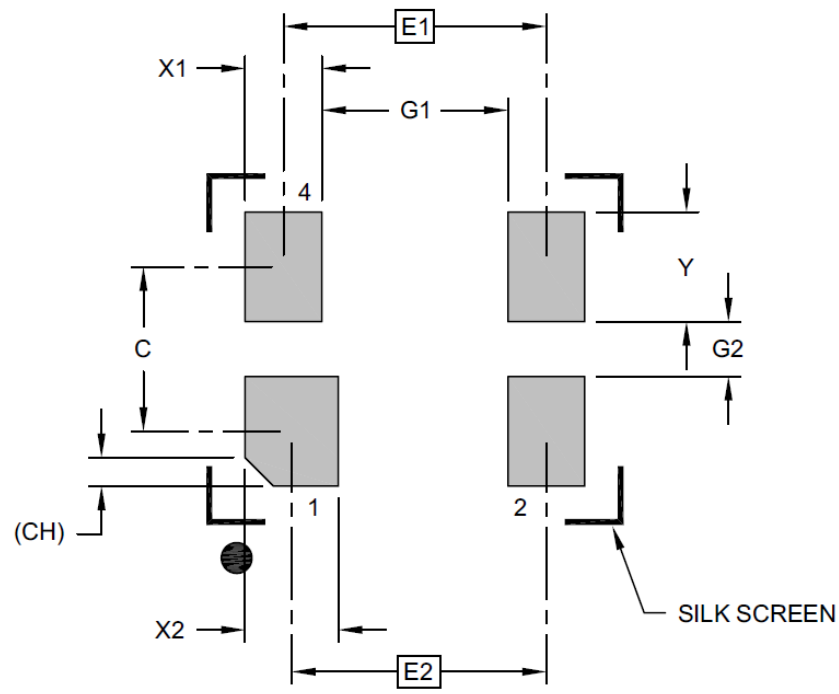
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RoHS/RoHS II Compliant

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

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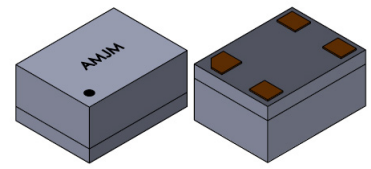
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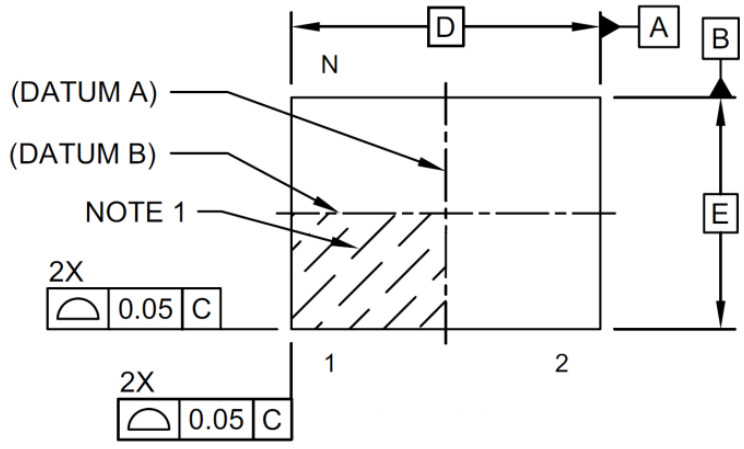
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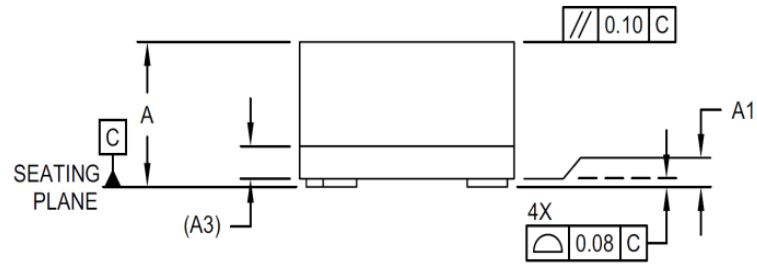
MECHANICAL DIMENSIONS

2.0 x 1.6 mm VFLGA Package Outline

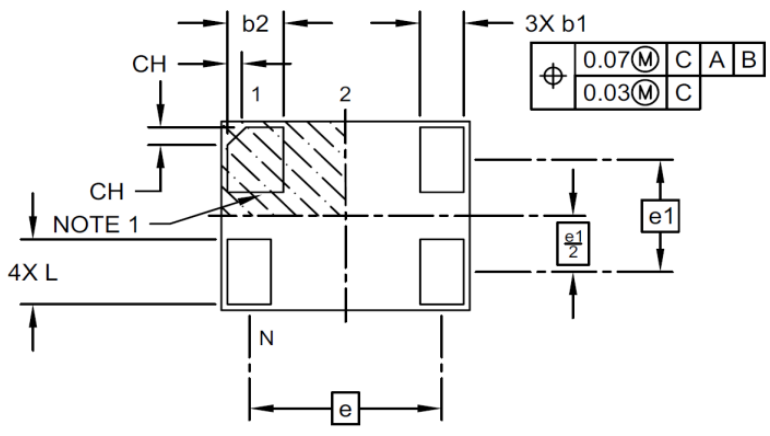
Top View



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

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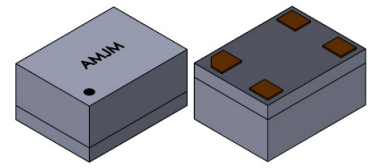
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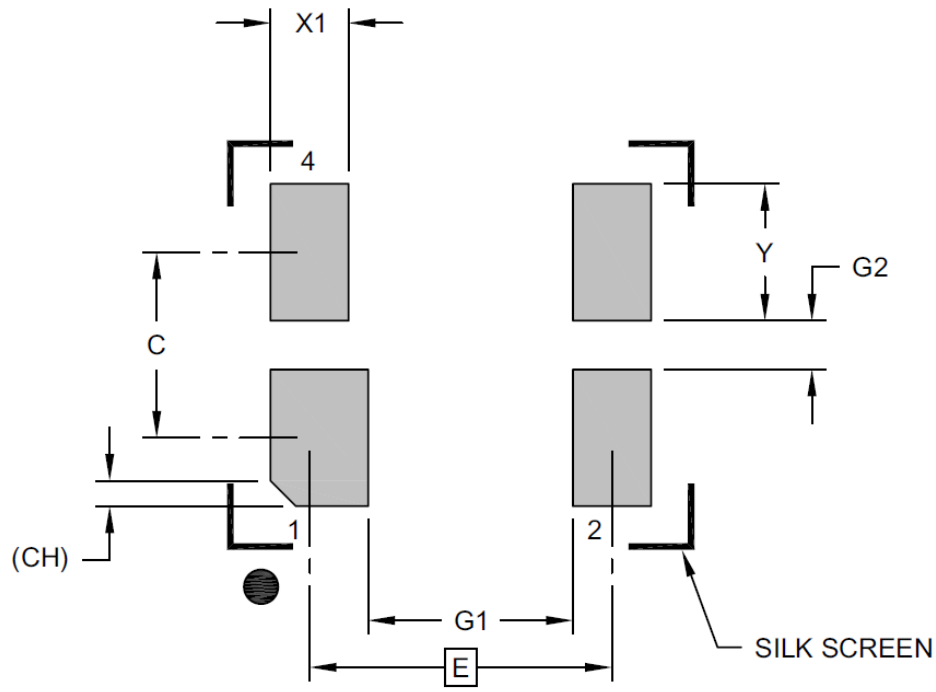
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MSL = MSL 1

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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

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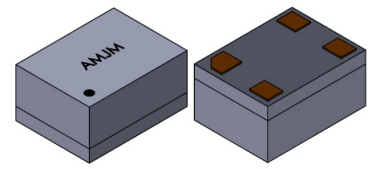
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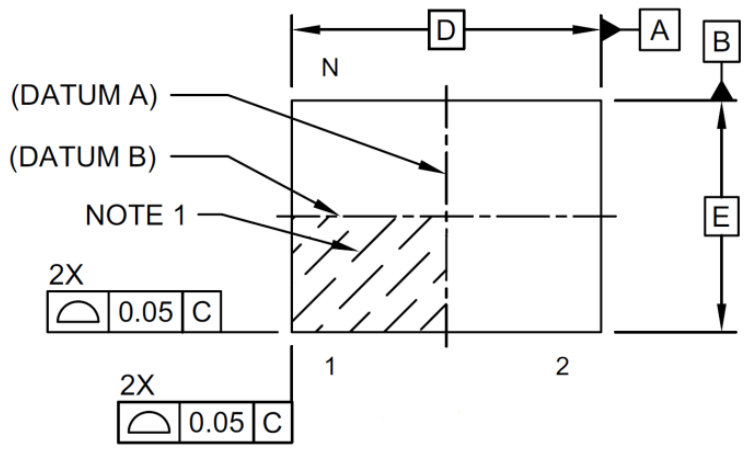
RoHS/RoHS II Compliant

MSL = MSL 1

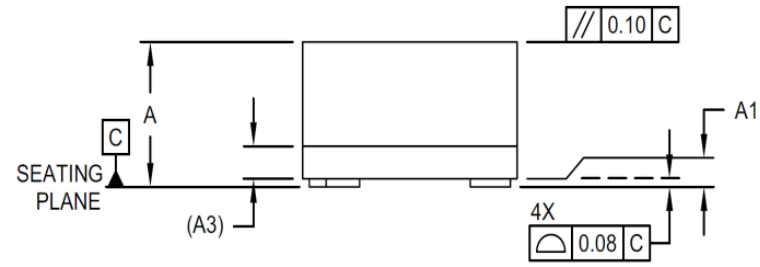
MECHANICAL DIMENSIONS

2.5 x 2.0 mm VLGA Package Outline

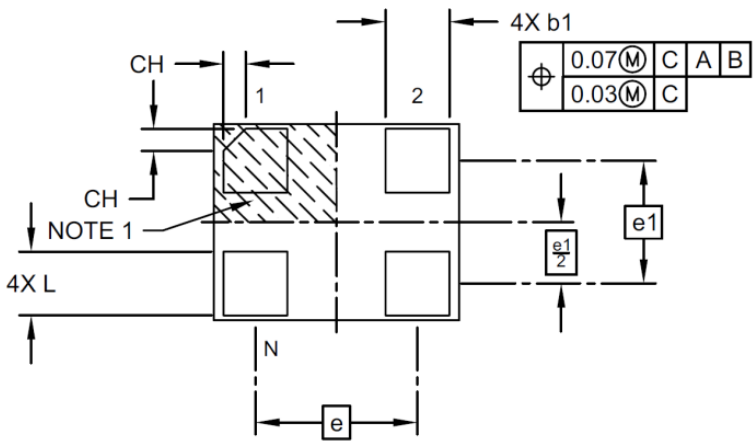
Top View



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

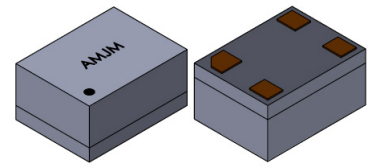
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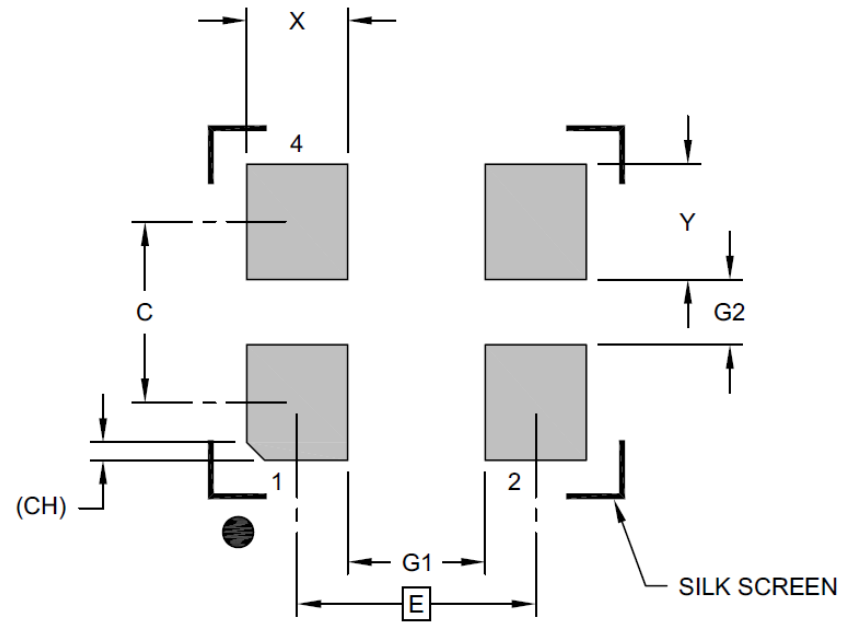
1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

RoHS/RoHS II Compliant

MSL = MSL 1

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

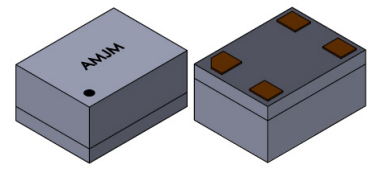
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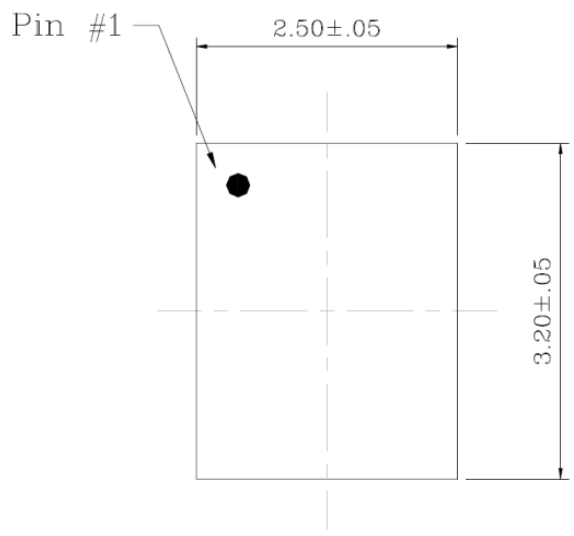
RoHS/RoHS II Compliant

MSL = MSL 1

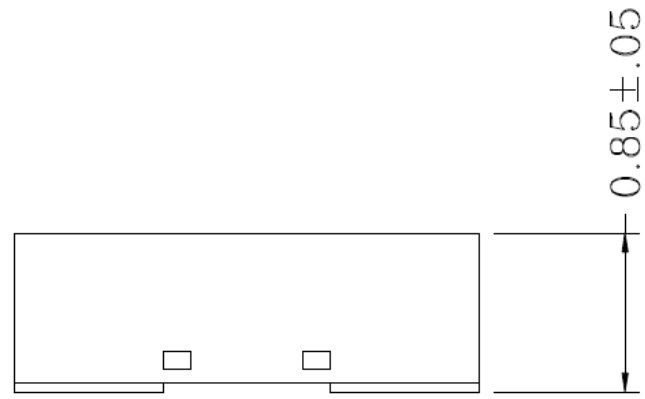
MECHANICAL DIMENSIONS

3.2 x 2.5 mm DFN Package Outline

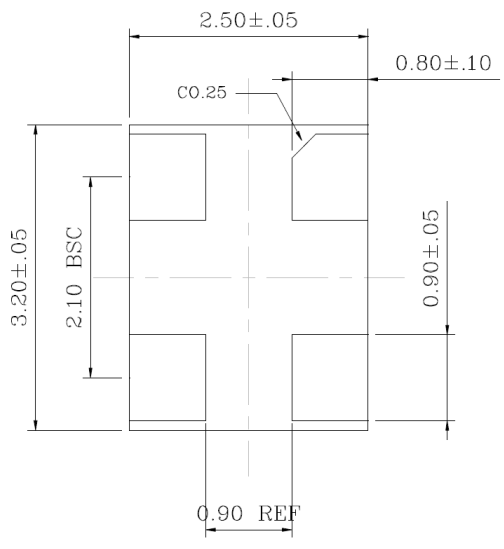
Top View



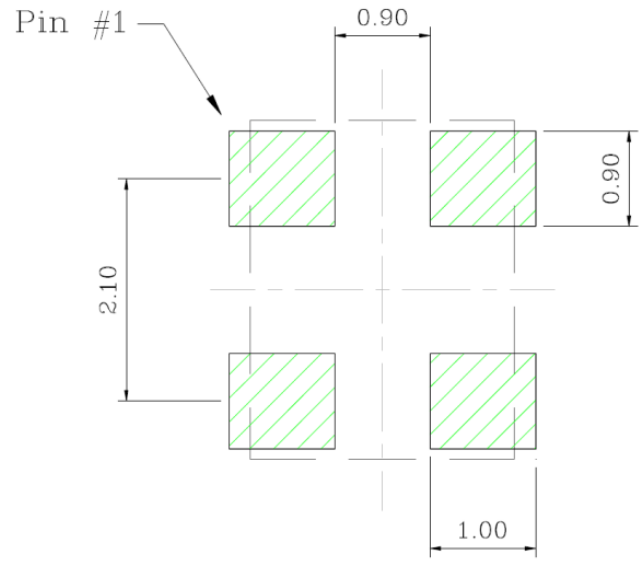
Side View



Bottom View



Recommended Landing Pattern



Dimensions : mm

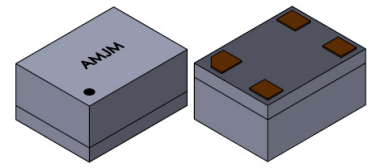
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RoHS/RoHS II Compliant

MSL = MSL 1

Reflow Profile [JEDEC J-STD-020]

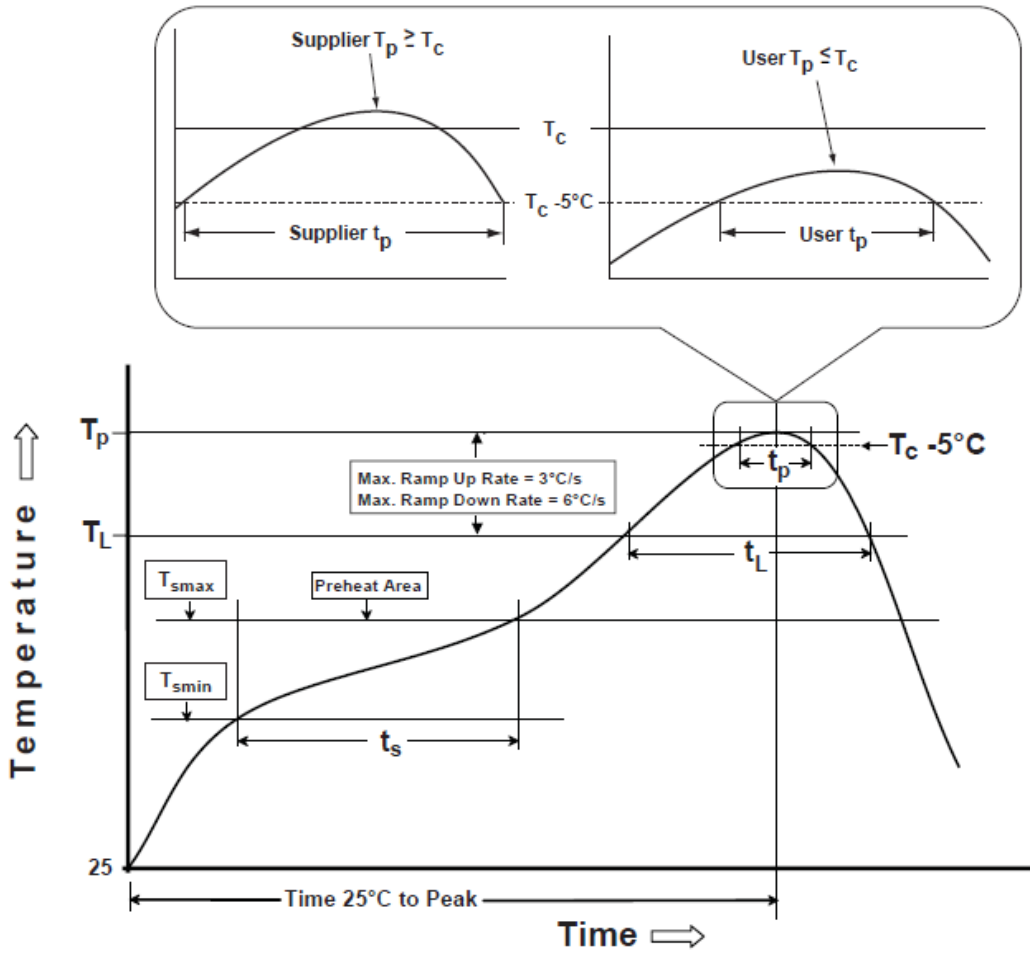


Table 1

SnPb Eutectic Process Classification Temperatures (T_c)		
Package Thickness	Volume mm³ <350	Volume mm³ >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 mm³ <350	Volume mm³ 350-2000	Volume mm³ >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.

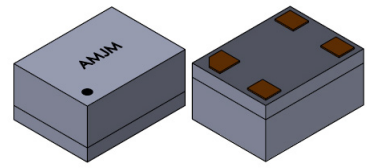
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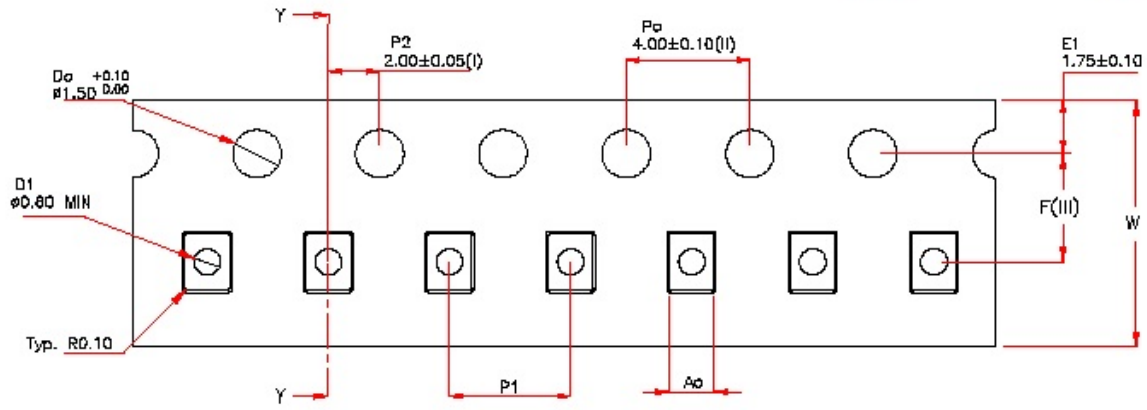
RoHS/RoHS II Compliant

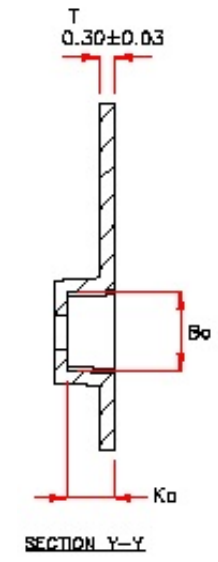
MSL = MSL 1

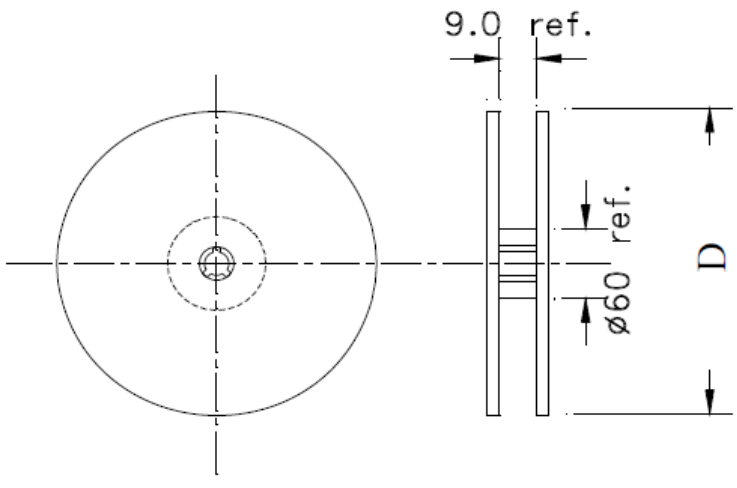
PACKAGING

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.

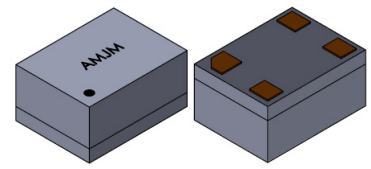
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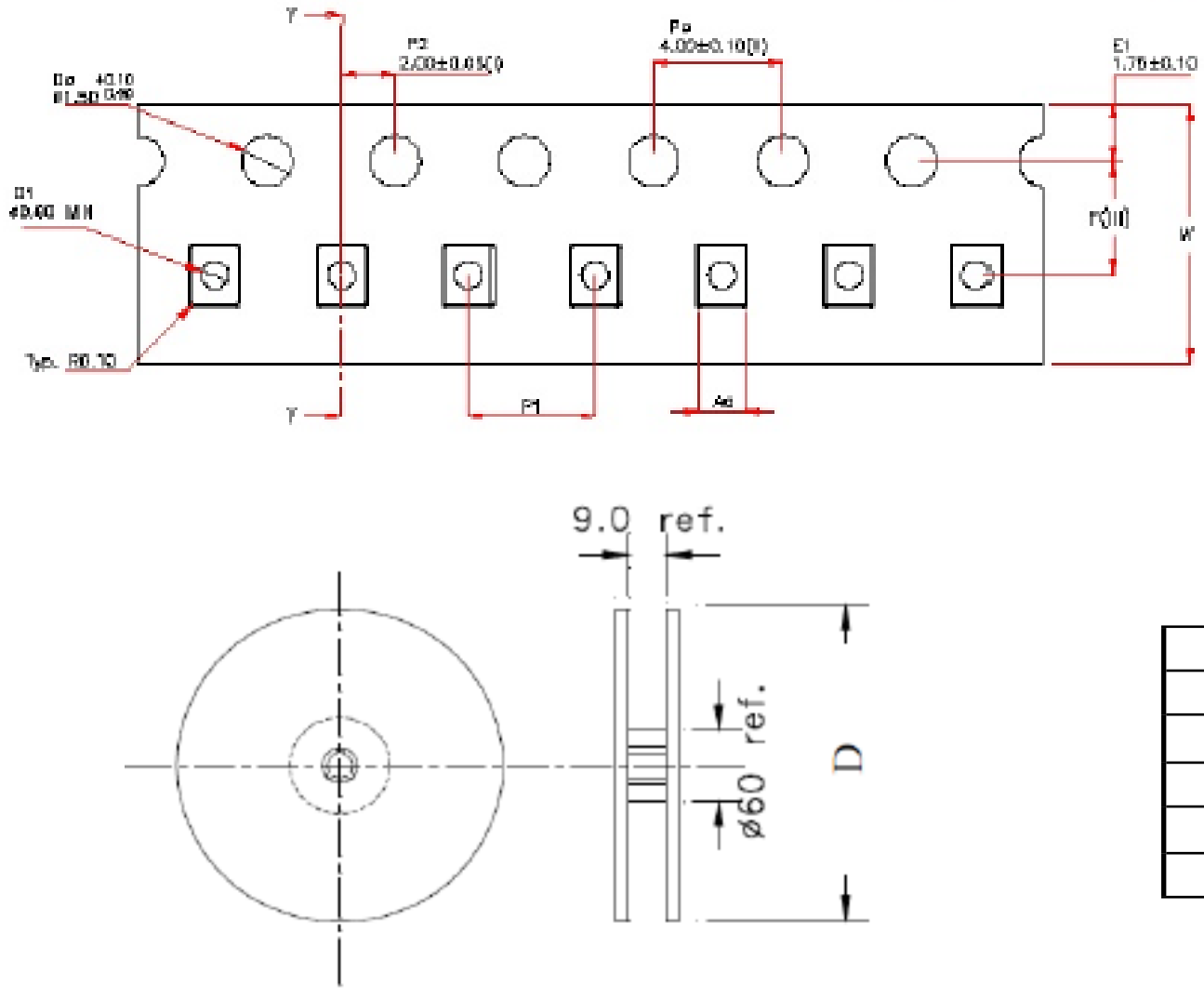
RoHS/RoHS II Compliant

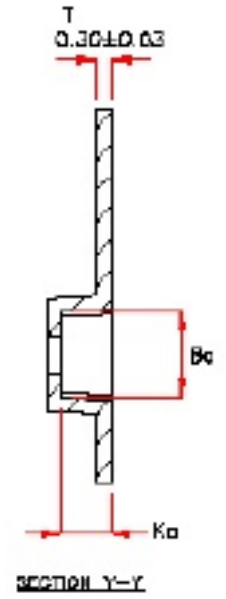
MSL = MSL 1

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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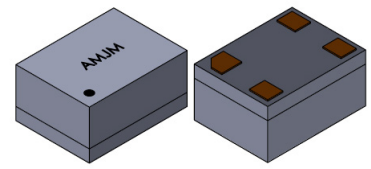
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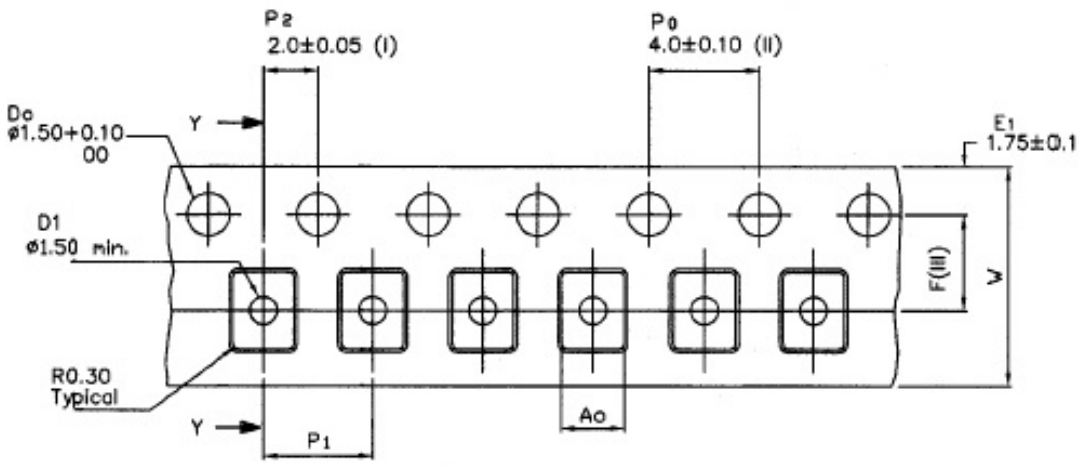
RoHS/RoHS II Compliant

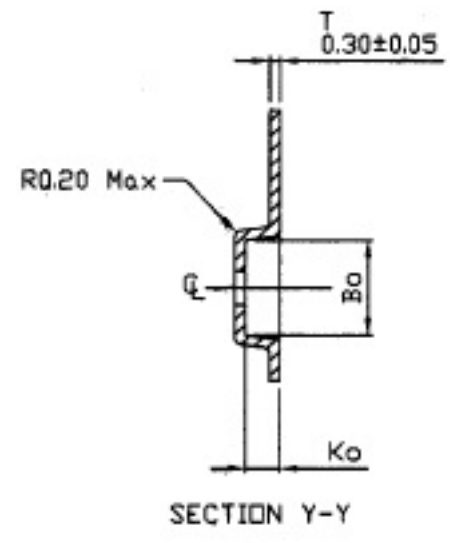
MSL = MSL 1

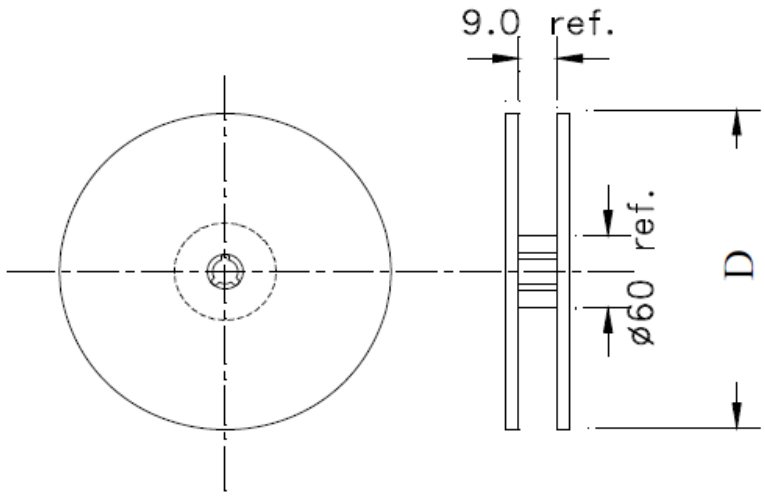
PACKAGING

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.

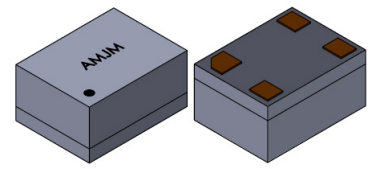
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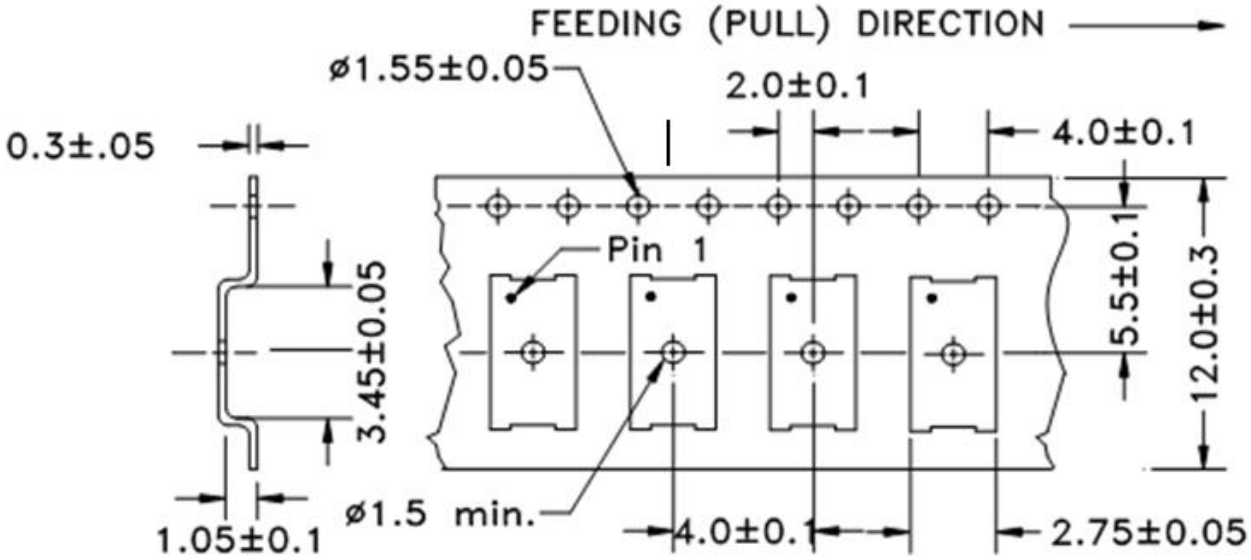
RoHS/RoHS II Compliant

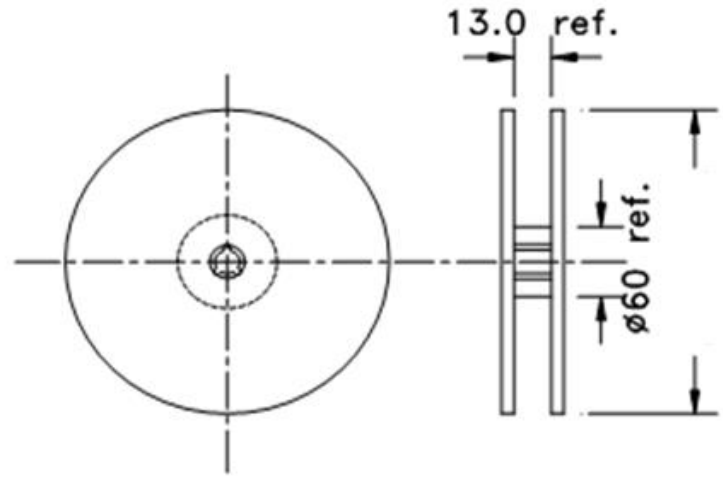
MSL = MSL 1

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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