

AMJM-SERIES



Pb 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 = MSL1

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

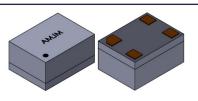
ELECTRICAL SPECIFICATIONS

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

Parameters		Min.	Typ.	Max.	Units	Note
Frequency Range		1.0000		100.0000	MHz	
Power Supply Vo	oltage (V_{DD})	1.71		3.63	V	
Current Consun	nption (I_{DD})		3.0		mA	$f_{out} = 27MHz, V_{DD} = 1.8V,$ No Load
Standby Current Con	sumntions(I)		12			$V_{DD} = 1.8 \text{ V}/2.5 \text{ V}$
Standby Current Con	sumptions(1 _{STBY})		80		μΑ	$V_{DD} = 3.3 \text{ V}$
Operating Tempe	rature Range	-40		+85	°C	See Options
Storage Tem	perature	-55		+150	°C	
All Inclusive Frequ	iency Stability	-25		+25	nnm	Options "D" or "F"
All illetusive Frequ	iency Stability	-50		+50	ppm	Options "E" or "G"
A aim	~	-5		+5		1st year @25°C
Aging	3	-1		+1	ppm	Per year after first year
Duty Cy	vcle	45		55	%	
	Logic High ${ m V}_{_{ m OH}}$	$0.8*V_{_{ m DD}}$				Std Drive option: I = 3mA
Output Logic Levels	OH				V	High Drive option: $I = 6 \text{ mA}$
	Logic Low			$0.2*V_{DD}$		Std Drive option: $I = -3mA$
	$V_{_{ m OL}}$			O.Z V DD		High Drive option: $I = -6 \text{ mA}$
Input Logio Lovels	Logic High ${ m V}_{_{ m IH}}$	$0.7*V_{_{ m DD}}$			V	
Input Logic Levels	Logic Low $V_{_{\rm IL}}$			0.3*V _{DD}		
Enable Pull-Up Resistor			300		kΩ	
Power Supply I	Ramp (t _{PU})	0.1		100	ms	Time to 90% targeted $V_{\scriptscriptstyle DD}$
Start-up Tir	ne (t _{su})			1.3	ms	From 90% V _{DD} to valid clock output, @ 25°C



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RoHS/RoHS II Compliant

MSL = MSL1

ELECTRICAL SPECIFICATIONS

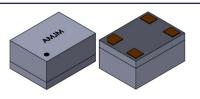
Parameters		Min	Тур.	Max.	Units	Note
Output Enable Time (t_{EN})				1	μs	
Output Disable Time (t _{DA})				200+period	ns	
	High Duiya		1	1.5		$CL = 15 \text{ pF} V_{DD} = 1.8V$
Rise (T_r) / Fall (T_f) Time	High Drive 20% ↔ 80%		0.5	1.0	ns -	CL = 15 pF $V_{DD} = 2.5 \text{V}/3.3 \text{V}$
	Std Drive 20% ↔ 80%		1.2	2.0		CL = 10 pF VDD =1.8V
			1.5	2.2		CL = 10 pF $V_{DD} = 2.5 \text{V}/3.3 \text{V}$
DMCD : 11'4	f = 27 MHz		9.5	11	ps	$V_{DD} = 1.8 \text{ V}$
RMS Period Jitter			7.5	9		$V_{DD} = 2.5V/3.3V$
Cycle-to-Cycle Jitter	f _{out} = 27 MHz		50	70	ps	$V_{DD} = 1.8 \text{ V}$
(Peak)			35	60		$V_{DD} = 2.5V/3.3V$

ABSOLUTE MAXIMUM RATINGS

Parameters	Min	Тур.	Max.	Units	Note
Supply Voltage	-0.3		+4.0	V	
Input Voltage	-0.3		V _{DD} +0.3	V	
Maximum Junction Temperature			+150	°C	
Ambient Operating Temperature	-40		+85	°C	Industrial
Ambient Operating Temperature	-20		+70	°C	Extended Commercial
Storage Ambient Temperature Range	-55		+150	°C	
Soldering Temperature		+260		°C	40 Sec Maximum
ESD Protection	ESD Protection 4 kV HBM, 400V MM, 2 kV CDM				



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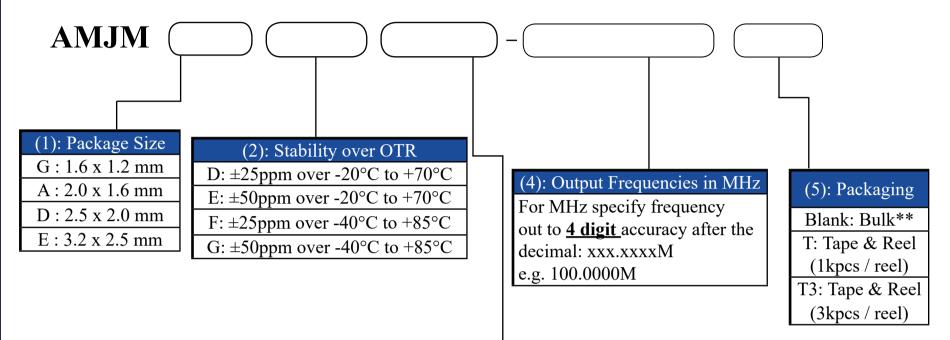


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OPTIONS AND PART IDENTIFICATION



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

Part Number Example:

AMJMGGK-8.0000MT

**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 <u>less than MOQ</u> 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 greater than MOQ and less than 1000pcs:

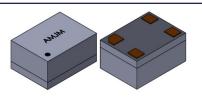
Due to packaging, the order must be a multiple of MOQ per package size above

For orders greater than 1000pcs:

Bulk is not an option. Please refer to tape and reel packaging.



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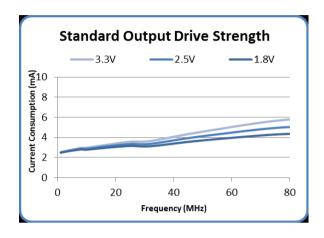


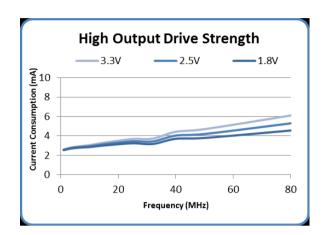
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RoHS/RoHS II Compliant MSL = MSL 1

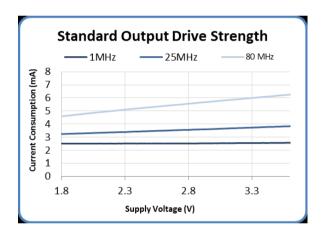
TYPICAL PERFORMANCE DATA @ 25°C ± 3°C

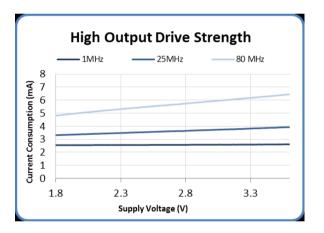
Current Consumption vs Frequency





Current Consumption vs Supply Voltage





PINFUNCTIONS

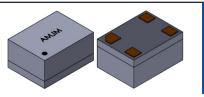
Pin Number	Pin Name	Description
	OE	Output Enable Note 1&3: High or Open = Specified Frequency Output Low = Output is high impedance
1	STBY	Standby Note 1&3: High or Open = Specified Frequency Output Low = Output is high impedance, Device is in low power mode, Supply current is I _{STBY}
2	GND	Power Supply Ground
3	Output	Oscillator Clock Output
4	$V_{_{ m DD}}$	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 $V_{_{\rm DD}}$ pin as possible.
- 3. 300 K Ω internal pull-up resistor present on pin 1.



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RoHS/RoHS II Compliant

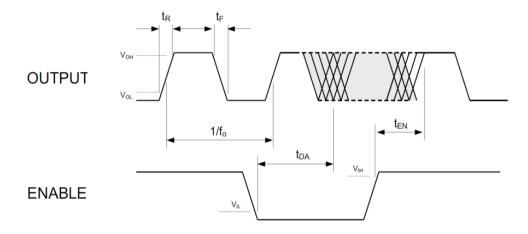
MSL = MSL1

OUTPUT BUFFER OPTIONS

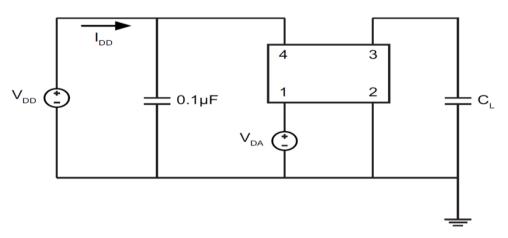
The AMJM Series is available in multiple output driver configurations. The standard-drive and high-drive deliver respective output currents of greater than 3 mA and 6 mA at 20% to 80% of the supply voltage. For loads of 15 pF or higher, the high-drive option is recommended.

DIAGRAMS

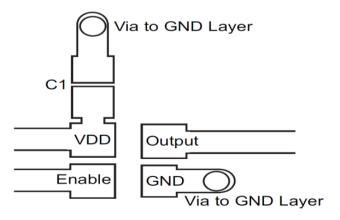
Output Waveform



Test Circuit

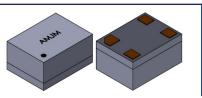


Recommended Board Layout





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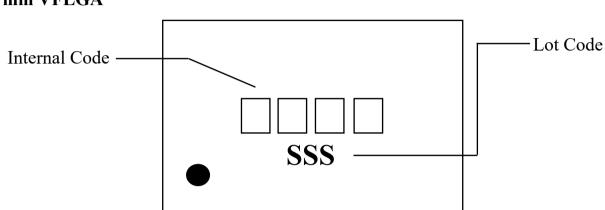
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RoHS/RoHS II Compliant

MSL=MSL1

MARKING

1.6 mm x 1.2 mm VFLGA 2.0 mm x 1.6 mm VFLGA



2.5 mm x 2.0 mm VLGA
3.2 mm x 2.5 mm DFN

Blank: Quick turn-around programmable orders < 1000pcs XXXXXXXX: Frequency, 7 digits. e.g. 0240000 for 24.0000MHz

YY (Year): e.g. 18 for 2018

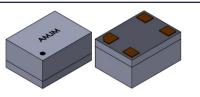
WW (Week): e.g. 08 for the 8th week of the year

Lot Code

Marking Method: Laser Marking



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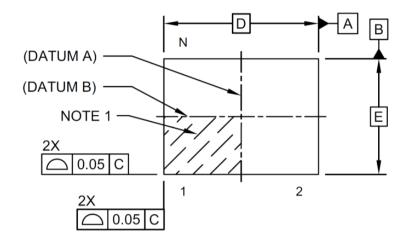
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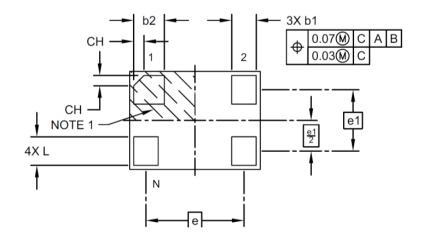
MECHANICAL DIMENSIONS

1.6 x 1.2 mm VFLGA Package Outline

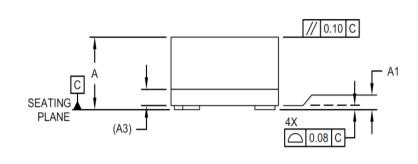
Top View



Bottom 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	Е	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	СН	0.125

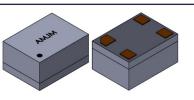
Dimensioning and tolerance per ASME Y14.5M

BSC: Basic Dimension. Theoretically exact value shown without tolerances REF: Reference Dimension, usually without tolerance, for information purposes only



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^{*}Standoff max .05 mm and min 0.00 mm



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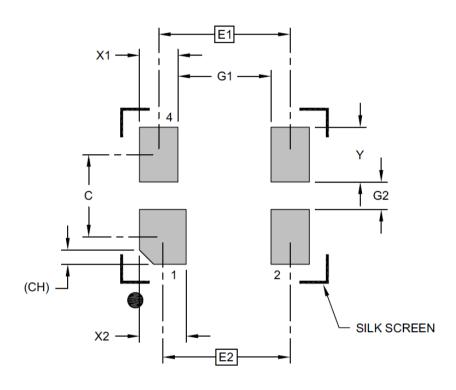
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MECHANICAL DIMENSIONS

Recommended Landing Pattern



Description	Marker	Max	Тур	Max	Unit
Contact Pitch	E1	1.	20 BSC		
Contact Pitch	E2	1.	16 BSC		
Contact Spacing	С		0.75		
Contact Width	X1			0.35	
Contact Width	X2			0.43	mm
Contact Pad Length	Y			0.50	
Space Between Contacts	G1	0.85			
Space Between Contacts	G2	0.25			
Contact 1 Index Chamfer	СН	0.13	x 45° RE	F	

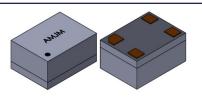
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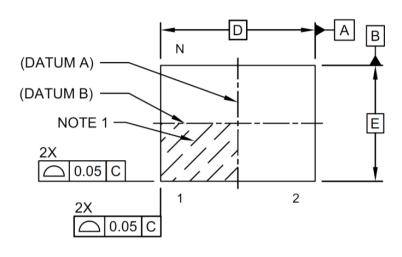
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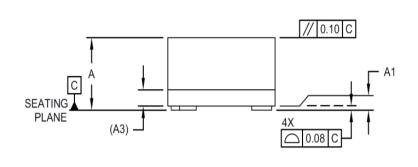
MECHANICAL DIMENSIONS

2.0 x 1.6 mm VFLGA Package Outline

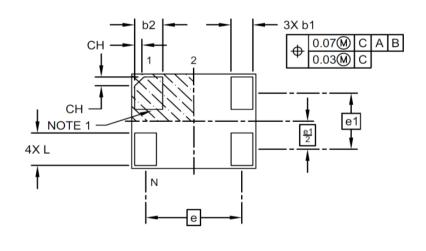
Top View



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	Е	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	СН	0.15

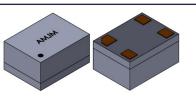
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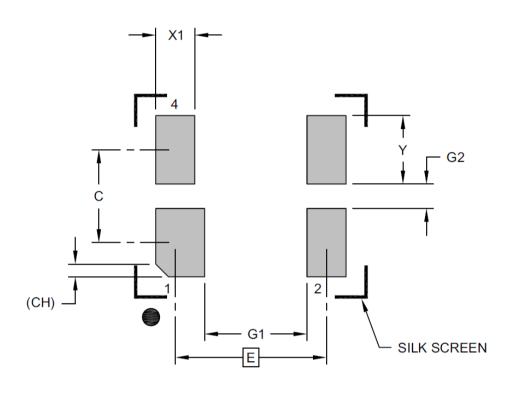
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RoHS/RoHS II Compliant

MSL=MSL1

MECHANICAL DIMENSIONS

Recommended Landing Pattern



Description	Marker	Max	Тур	Max	Unit
Contact Pitch	E2	1.	55 BSC		
Contact Spacing	С		0.95		
Contact Width	X1			0.50	
Contact Width	X2			0.40	
Contact Pad Length	Y			0.70	mm
Space Between Contacts	G1	1.05			
Space Between Contacts	G2	0.25			
Contact 1 Index Chamfer	СН	0.13	x 45° RE	F	

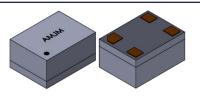
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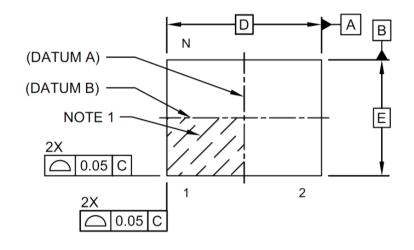
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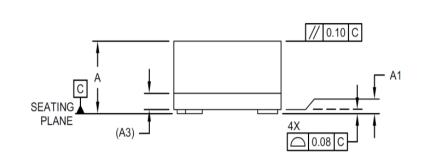
MECHANICAL DIMENSIONS

2.5 x 2.0 mm VLGA Package Outline

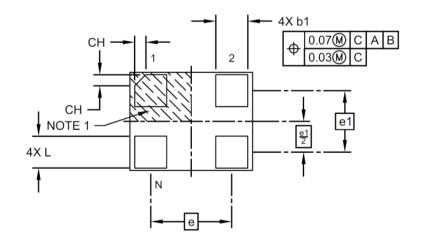
Top View



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	Е	2.00BSC
Terminal Width	b1	0.65 ± 0.05
Terminal Length	L	0.65 ± 0.05
Terminal 1 Index Chamfer	СН	0.225

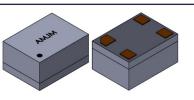
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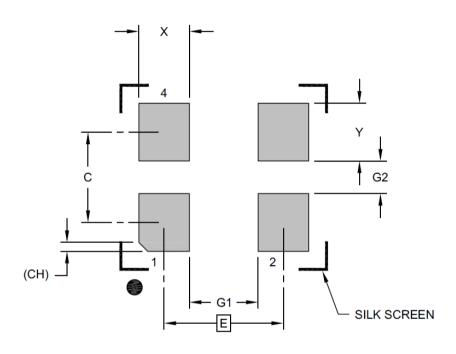
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MECHANICAL DIMENSIONS

Recommended Landing Pattern



Description	Marker	Max	Тур	Max	Unit
Contact Pitch	Е	1.	65 BSC		
Contact Spacing	C		1.25		
Contact Width	X1			0.70	
Contact Width	X2			0.80	mm
Contact Pad Length	Y			0.50	111111
Space Between Contacts	G1	0.95			
Space Between Contacts	G2	0.45			
Contact 1 Index Chamfer	СН	0.13	x 45° RE	F	

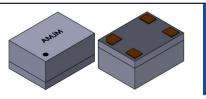
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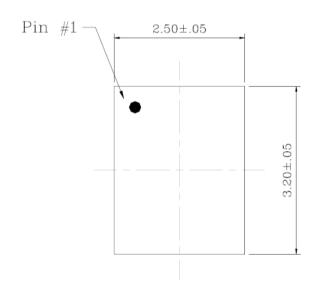
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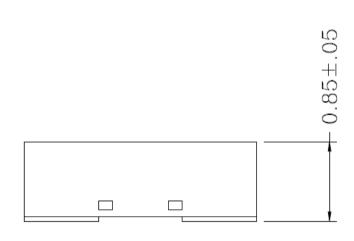
MECHANICAL DIMENSIONS

3.2 x 2.5 mm DFN Package Outline

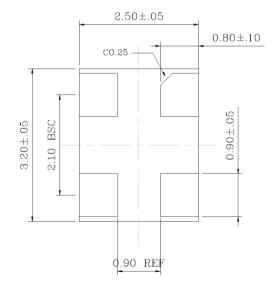
Top View



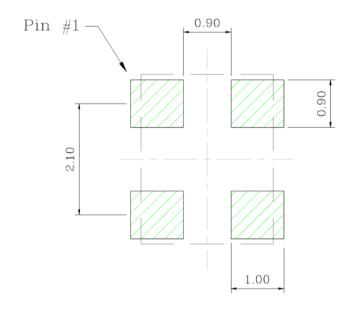
Side View



Bottom View



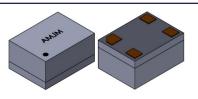
Recommended Landing Pattern



Dimesnsions: mm



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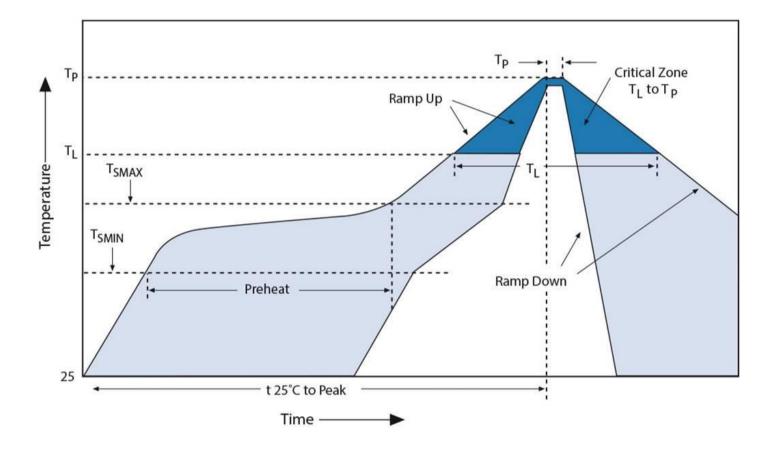


1.6 x 1.2 x 0.84 mm 2.0 x 1.6 x 0.84 mm 2.5 x 2.0 x 0.84 mm 3.2 x 2.5 x 0.85 mm

RoHS/RoHS II Compliant

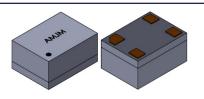
MSL = MSL1

REFLOW PROFILE



Zone	Description	Temperature	Time
1	Preheat / Soak	$\begin{array}{c} T_{\text{SMIN}} \sim T_{\text{SMAX}} \\ 150^{\circ}\text{C} \sim 200^{\circ}\text{C} \end{array}$	60 ~ 180 sec.
2	Reflow	${ m T_L} { m 217^{\circ}C}$	60 ~ 150 sec.
3	Peak heat	T _P 255°C - 260°C	20-40 sec. MAX.





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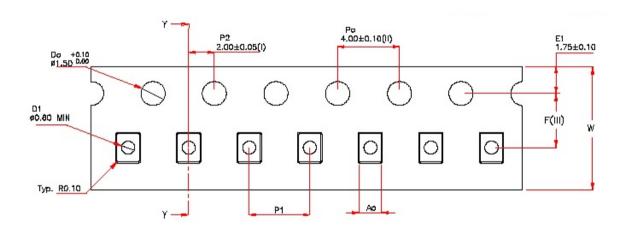
1.6 x 1.2 x 0.84 mm 2.0 x 1.6 x 0.84 mm 2.5 x 2.0 x 0.84 mm 3.2 x 2.5 x 0.85 mm

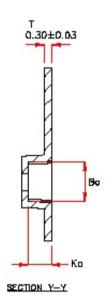
RoHS/RoHS II Compliant

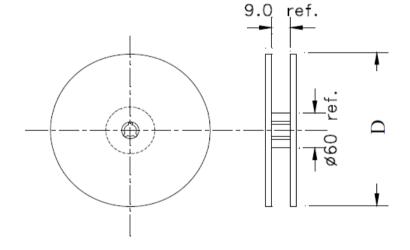
MSL = MSL1

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
\mathbf{B}_{0}	1.80 ± 0.05
K_0	1.05 ± 0.05
F	3.50 ± 0.05
$\mathbf{P}_{_{1}}$	4.00 ± 0.10
W	8.00 +0.30/-0.10

Dimesnsions: mm

* For Quick turn-around programmable sample orders <u>less than MOQ</u> 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 greater than MOQ and less than 1000pcs:

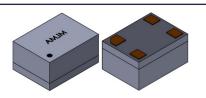
Due to packaging, the order must be a multiple of MOQ per package size above

For orders greater than 1000pcs:

Bulk is not an option. Please refer to tape and reel packaging.



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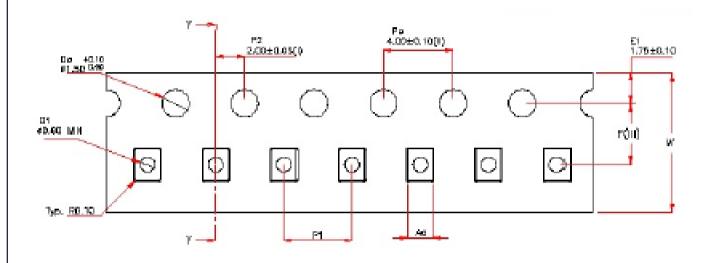
1.6 x 1.2 x 0.84 mm 2.0 x 1.6 x 0.84 mm 2.5 x 2.0 x 0.84 mm 3.2 x 2.5 x 0.85 mm

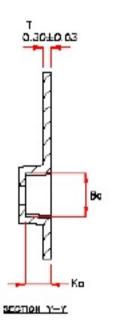
RoHS/RoHS II Compliant

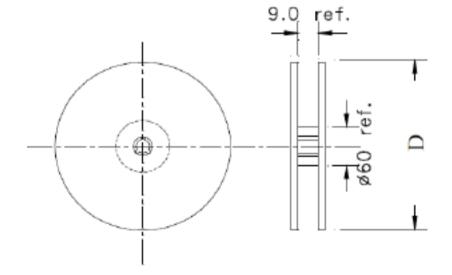
MSL = MSL 1

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
\mathbf{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

Dimesnsions: mm

* For Quick turn-around programmable sample orders <u>less than MOQ</u> 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 greater than MOQ and less than 1000pcs:

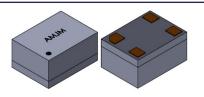
Due to packaging, the order must be a multiple of MOQ per package size above

For orders 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

RoHS/RoHS II Compliant

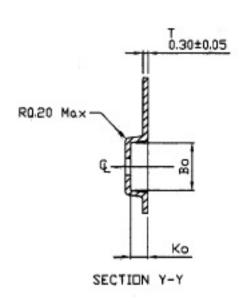
MSL = MSL1

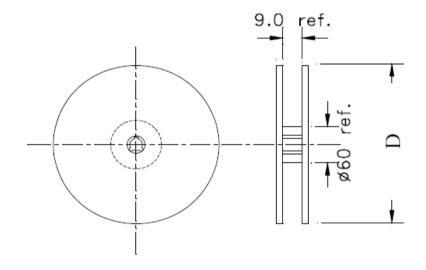
PACKAGING

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

Po 4.0±0.10 (II) P1.50+0.10 P1.50 nin. P2.0±0.05 (I) P1.75±0.1

Affected Package Sizes: 2.5 mm x 2.0 mm VLGA





A_0	2.25 ± 0.05
\mathbf{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

Dimesnsions: mm

* For Quick turn-around programmable sample orders <u>less than MOQ</u> 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 greater than MOQ and less than 1000pcs:

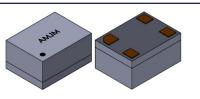
Due to packaging, the order must be a multiple of MOQ per package size above

For orders greater than 1000pcs:

Bulk is not an option. Please refer to tape and reel packaging.



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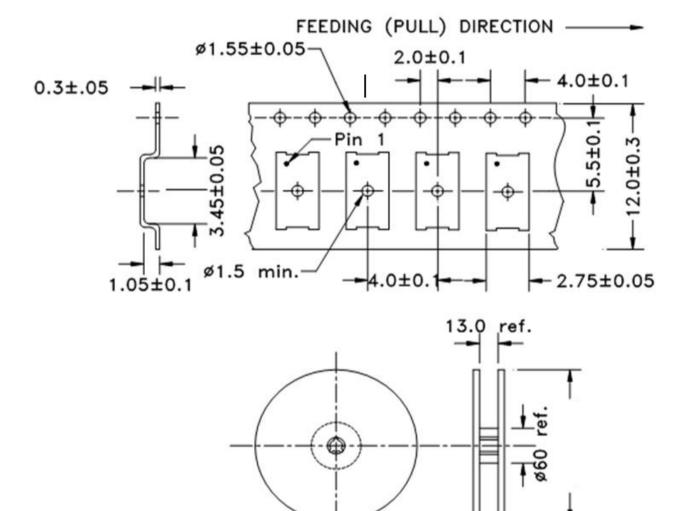
Pb 1.6 x 1.2 x 0.84 mm 2.0 x 1.6 x 0.84 mm 2.5 x 2.0 x 0.84 mm 3.2 x 2.5 x 0.85 mm

RoHS/RoHS II Compliant

MSL = MSL1

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



Dimesnsions: mm

* For Quick turn-around programmable sample orders <u>less than MOQ</u> 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).

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For orders greater than MOQ and less than 1000pcs:

Due to packaging, the order must be a multiple of MOQ per package size above

For orders greater than 1000pcs:

Bulk is not an option. Please refer to tape and reel packaging.



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