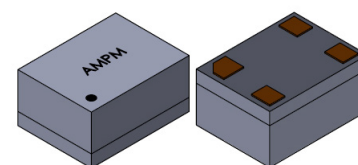


POWER OPTIMIZED MEMS OSCILLATORS



AMPM-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

- Compact footprint as small as 1.6x1.2mm
- Low 0.84mm profile
- Low power consumption
- 1MHz to 80MHz 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: 1.3mA IDD (typ)

APPLICATIONS

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

ELECTRICAL SPECIFICATIONS

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

Parameters		Min.	Typ.	Max.	Units	Note
Frequency Range		1.0000		80.0000	MHz	
Power Supply Voltage (V_{DD})		1.71		3.63	V	
Current Consumption (I_{DD})			1.3		mA	$f_{out} = 24\text{MHz}$, $V_{DD} = 1.8V$, No Load
Standby Current Consumption (I_{STBY})			12	30	μA	$V_{DD} = 1.8/2.5V$
			80	160		$V_{DD} = 3.3V$
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	%	1 MHz to 39 MHz
		40		60		61 MHz to 80 MHz 40 MHz to 60 MHz
Output Logic Levels	V_{OH}	$0.8 \cdot V_{DD}$			V	Logic High I = 1 mA
	V_{OL}			$0.2 \cdot V_{DD}$		Logic Low I = -1 mA
Input Logic Levels	V_{IH}	$0.7 \cdot V_{DD}$			V	Logic High
	V_{IL}			$0.3 \cdot V_{DD}$		Logic Low
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})				1.3	ms	From 90% V_{DD} to valid clock output, @ 25°C

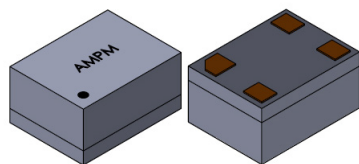


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AMPM-SERIES



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

ELECTRICAL SPECIFICATIONS

Parameters		min	Typ.	Max.	Units	Note
Output Enable Time (t_{EN})				1	μ s	
Output Disable Time (t_{DA})				200+period	ns	
Rise(T_r)/Fall (T_f) Time	Low Drive 20% $\leftrightarrow$ 80%		2.5	3.5	ns	CL = 5 pF V_{DD} = 1.8V
			1.5	2.2		CL = 5 pF V_{DD} = 2.5V/3.3V
	Std Drive 20% $\leftrightarrow$ 80%		1.2	2.0		CL = 10 pF V_{DD} = 1.8V
			0.6	1.2		CL = 10 pF V_{DD} = 2.5V/3.3V
RMS Period Jitter	Low Drive f_{out} = 27 MHz		32	40	ps	V_{DD} = 1.8V
			25	32		V_{DD} = 2.5/3.3V
	Std Drive f_{out} = 27 MHz		23	30		V_{DD} = 1.8V
			20	28		V_{DD} = 2.5/3.3V
Cycle-to-Cycle Jitter (Peak)	Low Drive f_{out} = 27 MHz		180	240	ps	V_{DD} = 1.8V
			120	170		V_{DD} = 2.5/3.3V
	Std Drive f_{out} = 27 MHz		115	190		V_{DD} = 1.8V
			90	150		V_{DD} = 2.5/3.3V

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	40 Sec Maximum
ESD Protection	4 kV HBM, 400V MM, 2 kV CDM				

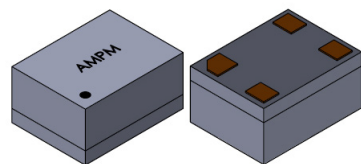


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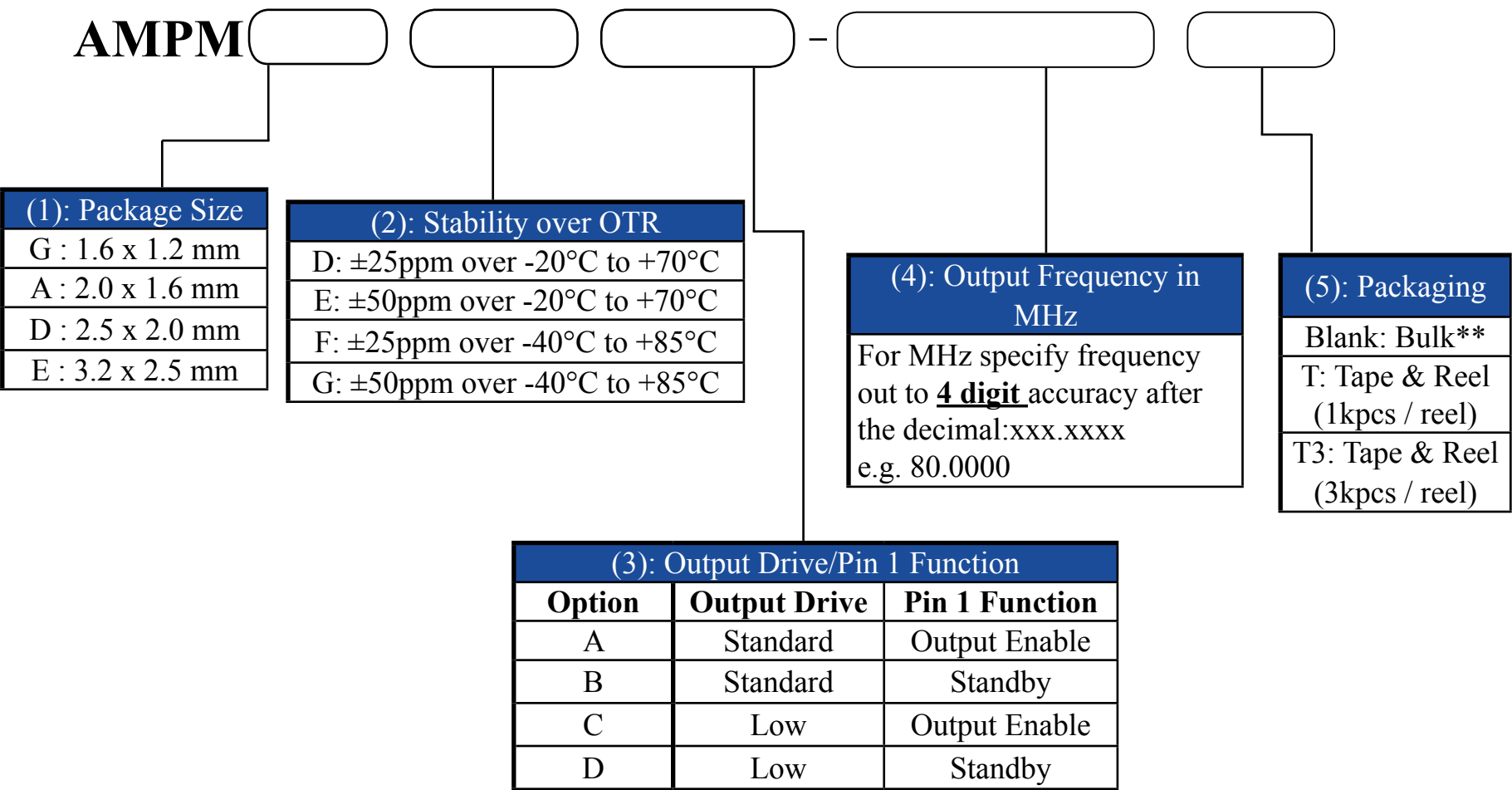


RoHS/RoHS II Compliant

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

OPTIONS AND PART IDENTIFICATION



Part Number Example:
AMPMGGD - 16.0000T

**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.

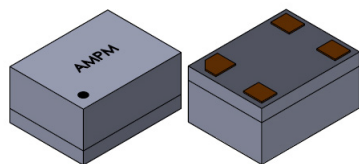


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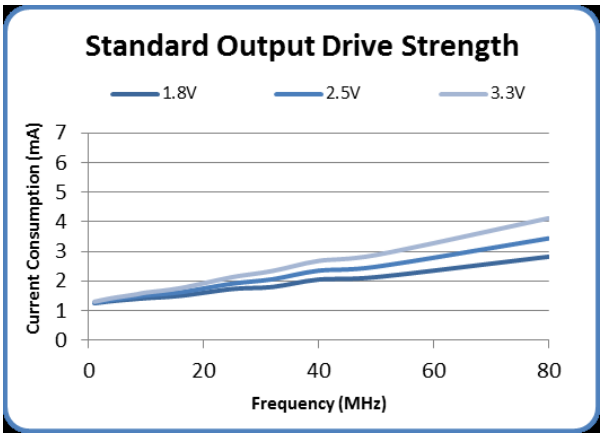
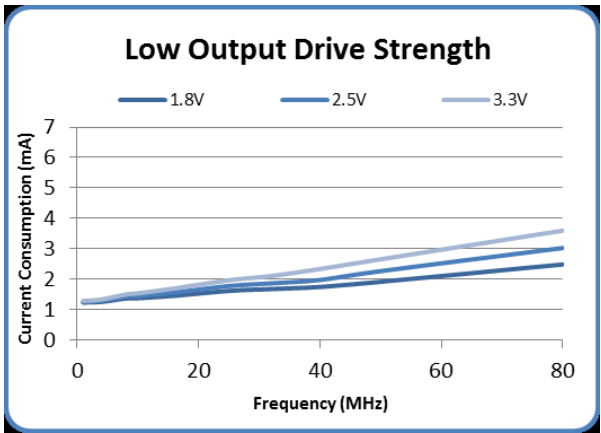
RoHS/RoHS II Compliant

MSL = MSL 1

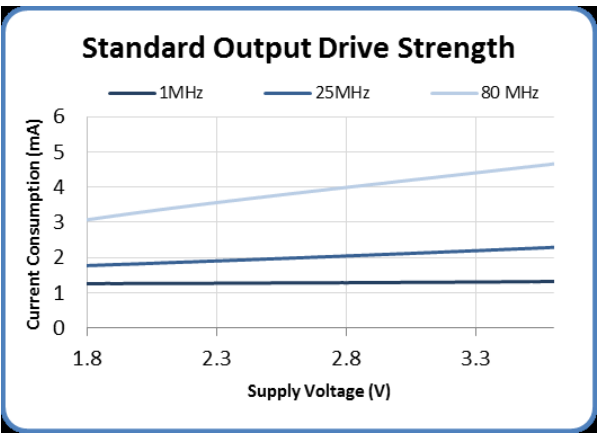
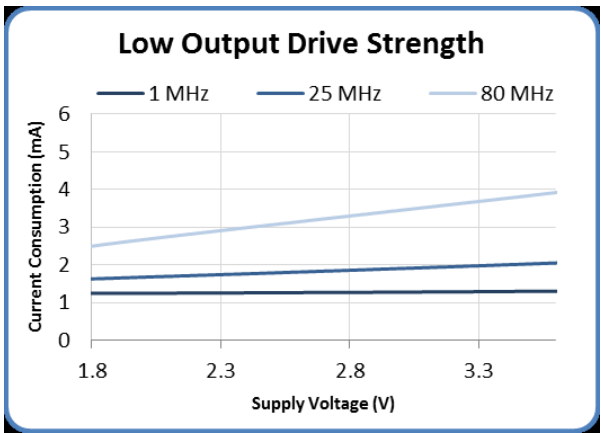
1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

TYPICAL PERFORMANCE DATA @ 25°C ± 3°C

Current Consumption vs Frequency



Current Consumption vs Supply Voltage



PINFUNCTIONS

Pin Number	Pin Name	Description
1	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 μ F capacitor placed as close to VDD pin as possible.
3. 300 K Ω internal pull-up resistor present on pin 1.

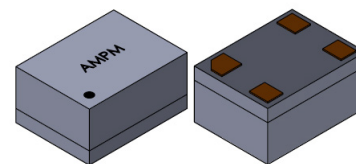


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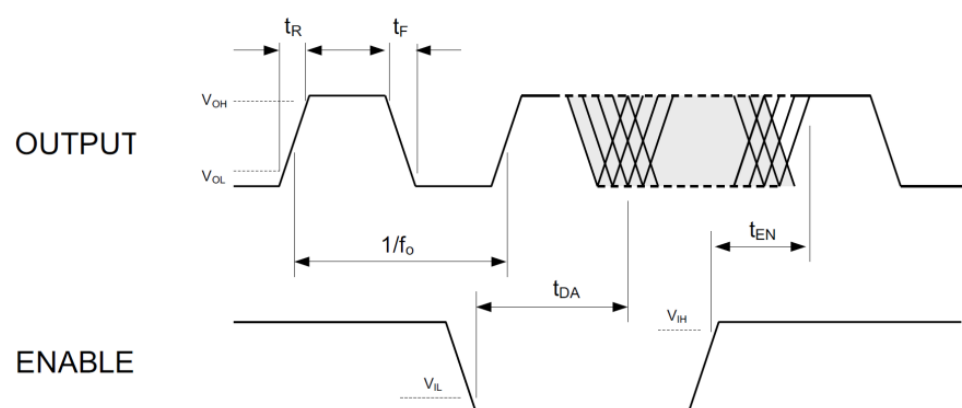
1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

OUTPUT BUFFER OPTIONS

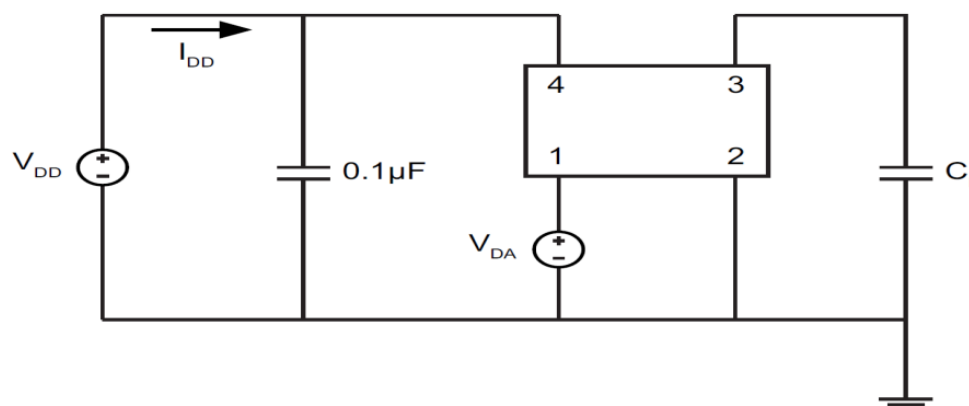
The AMPM Series is available in multiple output driver configurations. The low-power driver minimizes current consumption and EMI while delivering greater than 1 mA output current at 20% to 80% of the supply voltage. The standard-drive delivers greater than 3 mA output current at 20% to 80% of the supply voltage.

DIAGRAMS

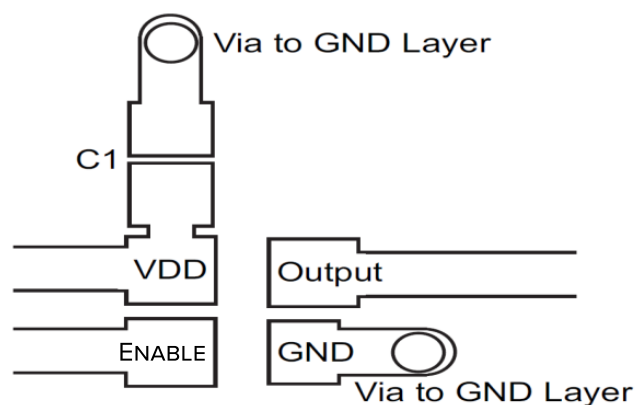
Output Waveform



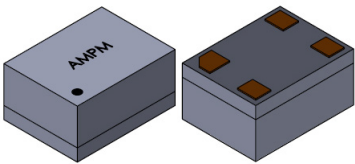
Test Circuit



Recommended Board Layout



POWER OPTIMIZED MEMS OSCILLATORS



AMPM-SERIES



ESD Sensitive



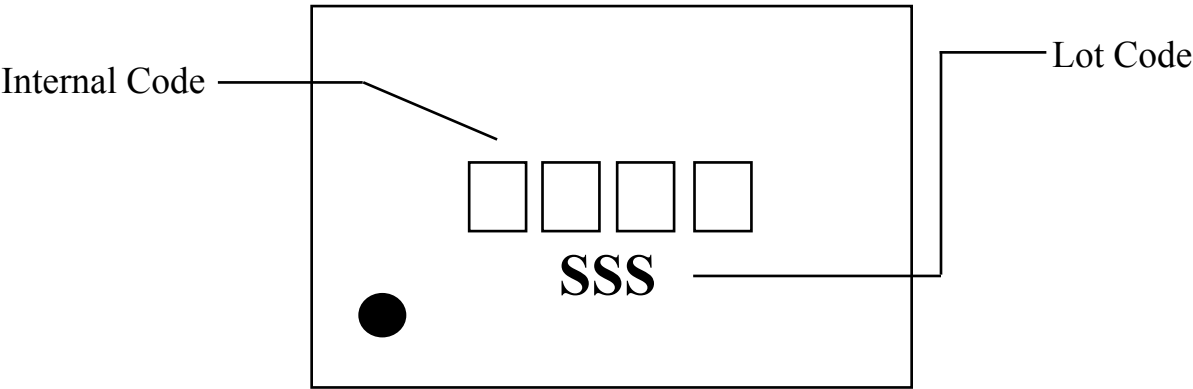
RoHS/RoHS II Compliant

MSL = MSL 1

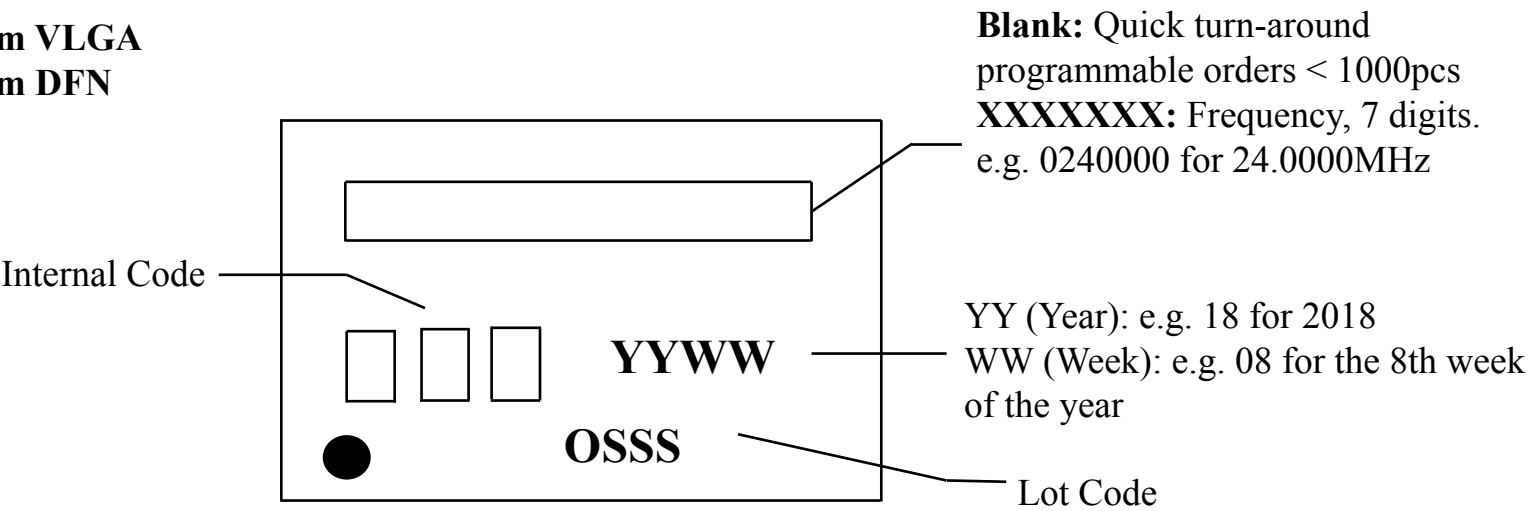
1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

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
XXXXXXX: 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

Marking Method: Laser Marking

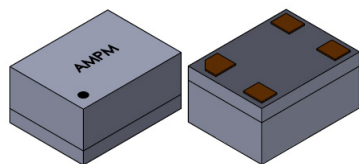


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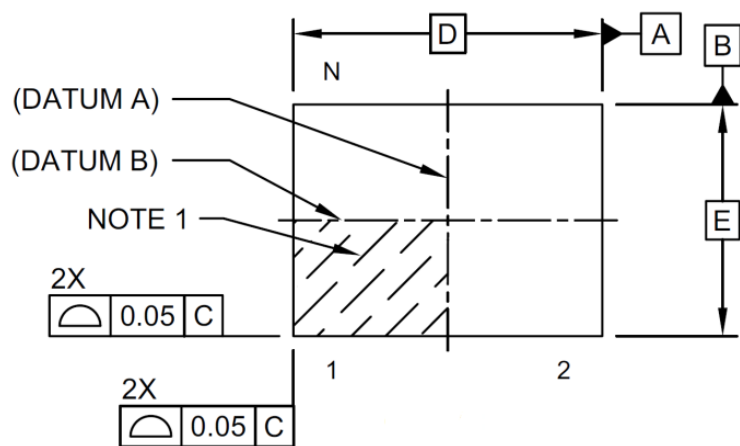
MSL = MSL 1

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

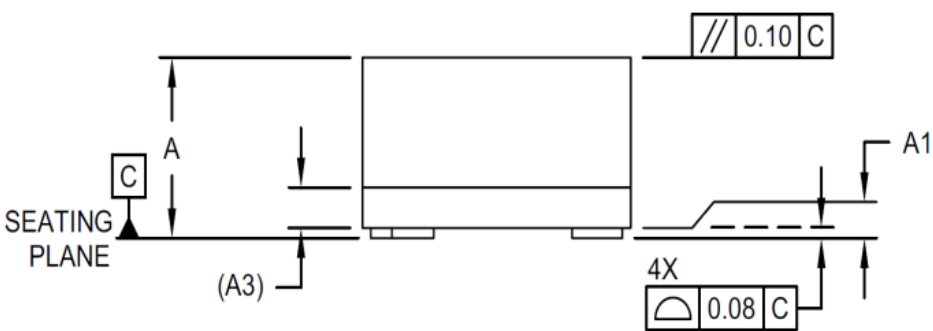
MECHANICAL DIMENSIONS

1.6 x 1.2 mm VFLGA Package Outline

Top View

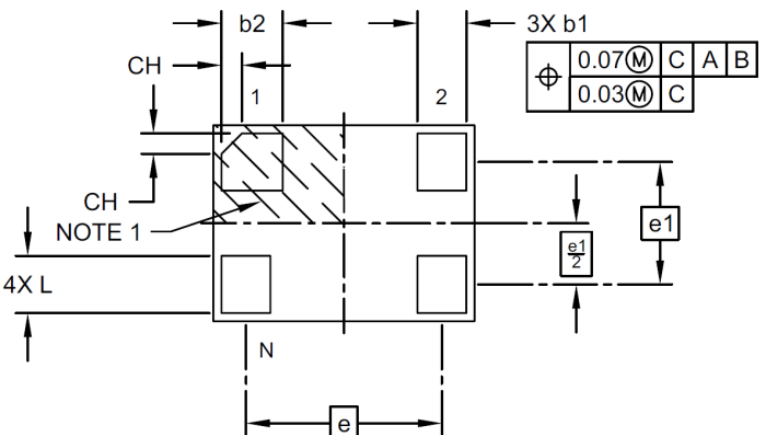


Side View



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

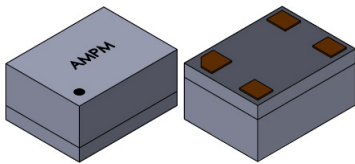


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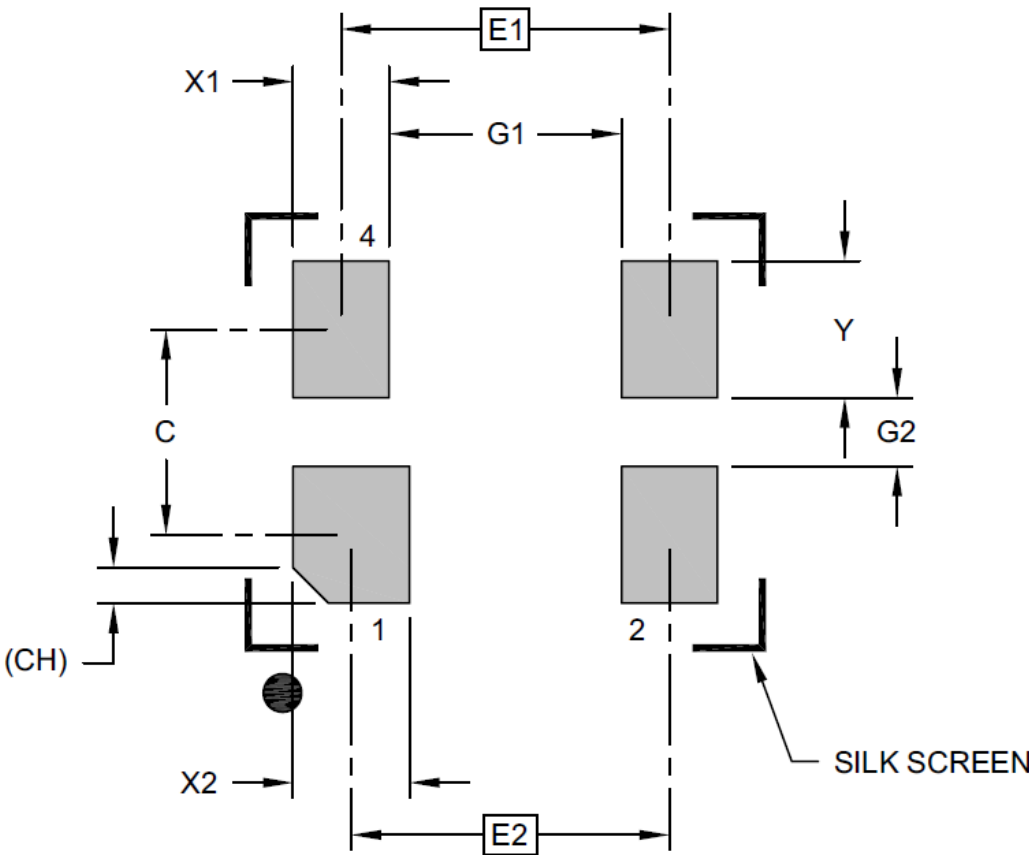
RoHS/RoHS II Compliant

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



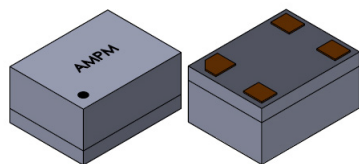
Description	Marker	Max	Typ	Max	Unit
Contact Pitch	E1	1.20 BSC			mm
Contact Pitch	E2	1.16 BSC			
Contact Spacing	C		0.75		
Contact Width	X1			0.35	
Contact Width	X2			0.43	
Contact Pad Length	Y			0.50	
Space Between Contacts	G1	0.85			
Space Between Contacts	G2	0.25			
Contact 1 Index Chamfer	CH	0.13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

POWER OPTIMIZED MEMS OSCILLATORS



AMPM-SERIES



ESD Sensitive



RoHS/RoHS II Compliant

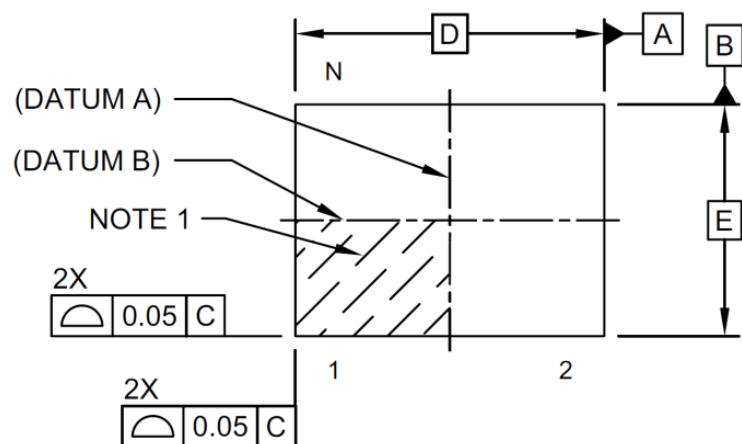
1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

MSL = MSL 1

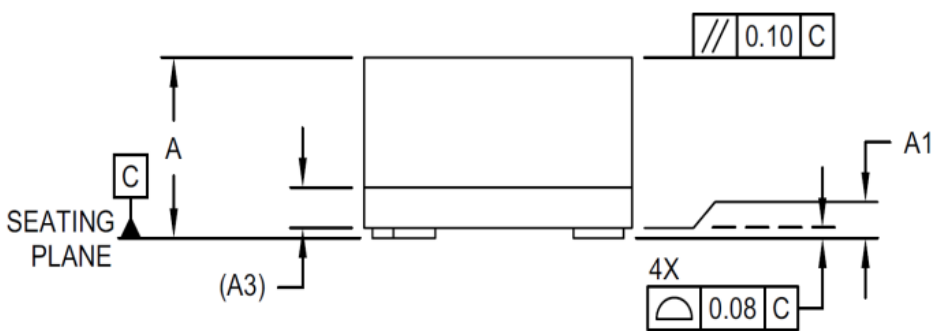
MECHANICAL DIMENSIONS

2.0 x 1.6 mm VFLGA Package Outline

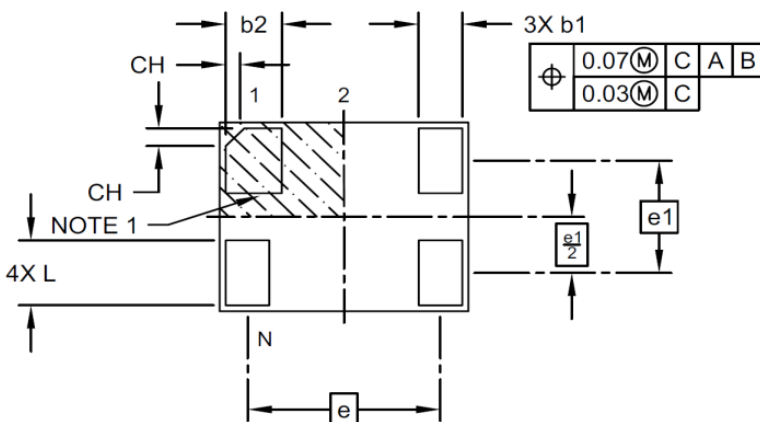
Top View



Side View



Bottom View

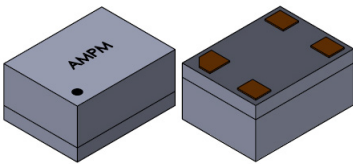


Description	Marker	Dimensions (mm)
Number of Terminals	N	4
Terminal Pitch	e	1.55 BSC
Terminal Pitch	e1	0.95 BSC
Overall Height	A	0.84 ± 0.05
Standoff*	A1	.02
Substrate Thickness (with Terminals)	A3	0.20 REF
Overall Length	D	2.00 BSC
Overall Width	E	1.60 BSC
Terminal Width	b1	0.35 ± 0.05
Terminal Width	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
BSC: Basic Dimension. Theoretically exact value shown without tolerances
REF: Reference Dimension, usually without tolerance, for information purposes only

POWER OPTIMIZED MEMS OSCILLATORS



AMPM-SERIES



ESD Sensitive

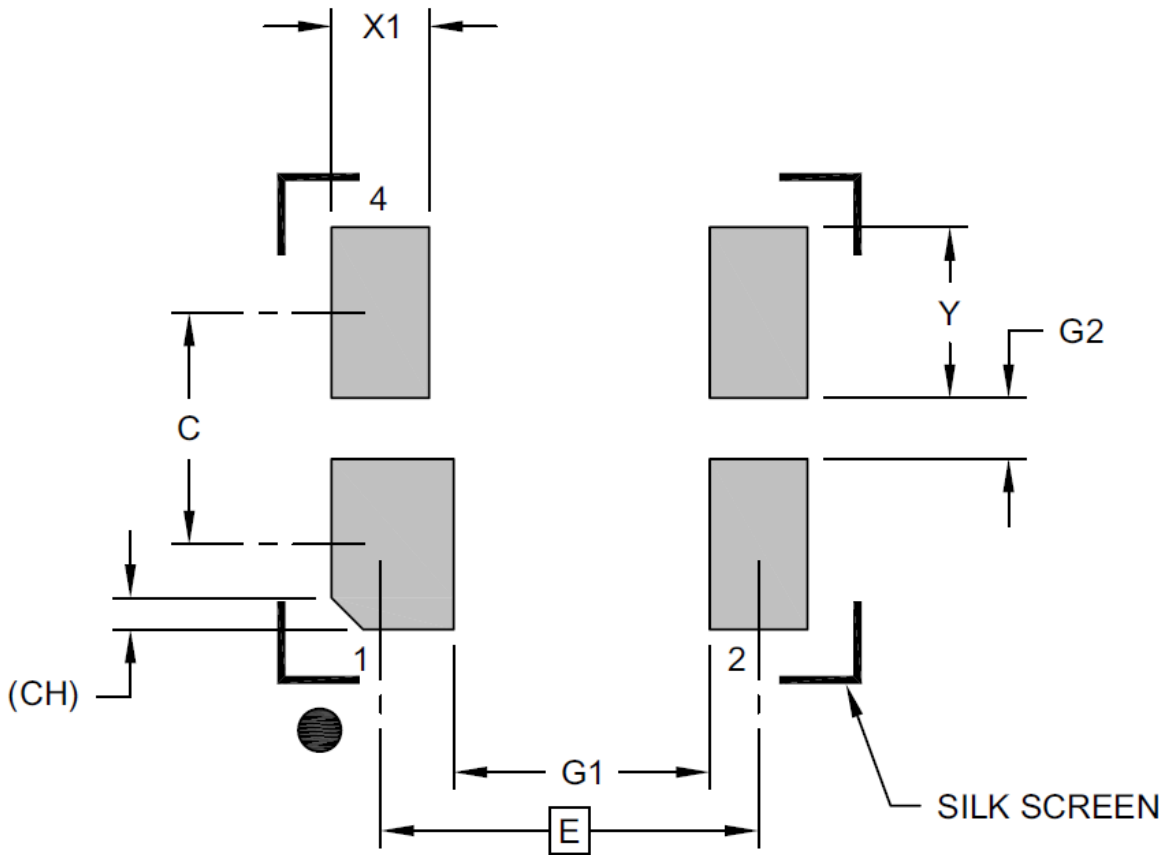


RoHS/RoHS II Compliant

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

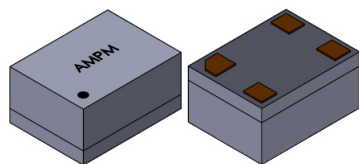


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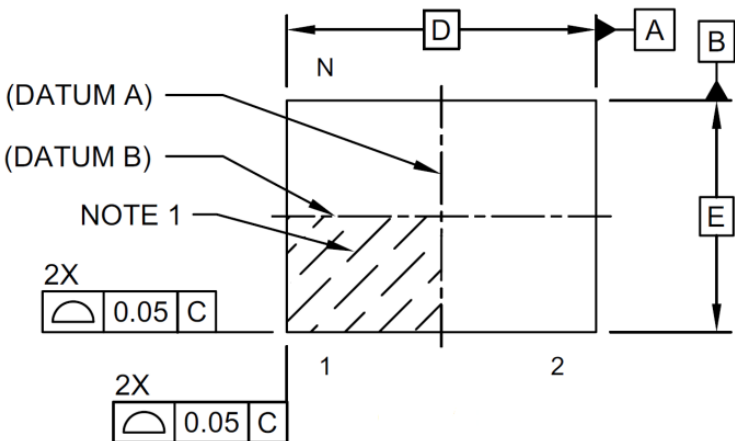
MSL = MSL 1

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

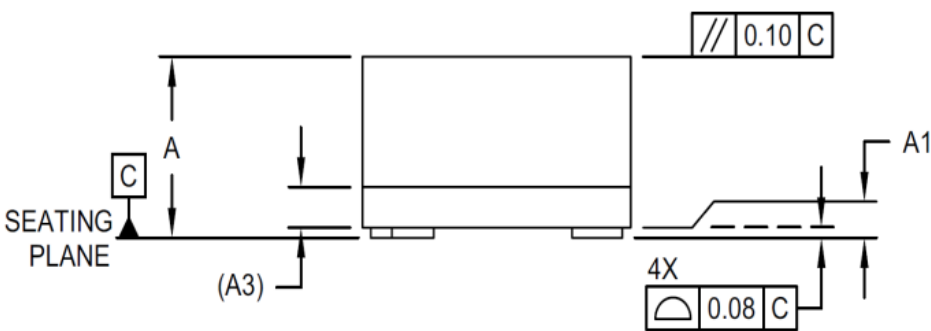
MECHANICAL DIMENSIONS

2.5 x 2.0 mm VLGA Package Outline

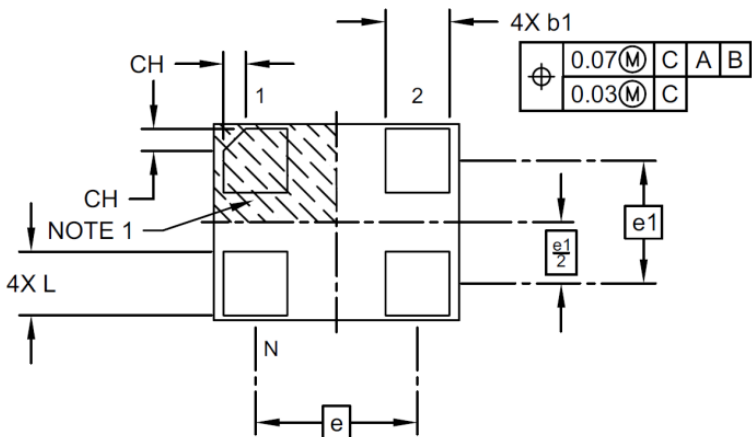
Top View



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

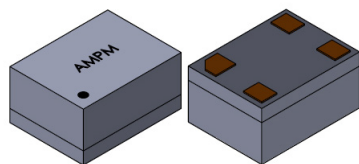
*Standoff max .05 mm and min 0.00 mm

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

POWER OPTIMIZED MEMS OSCILLATORS



AMPM-SERIES



ESD Sensitive

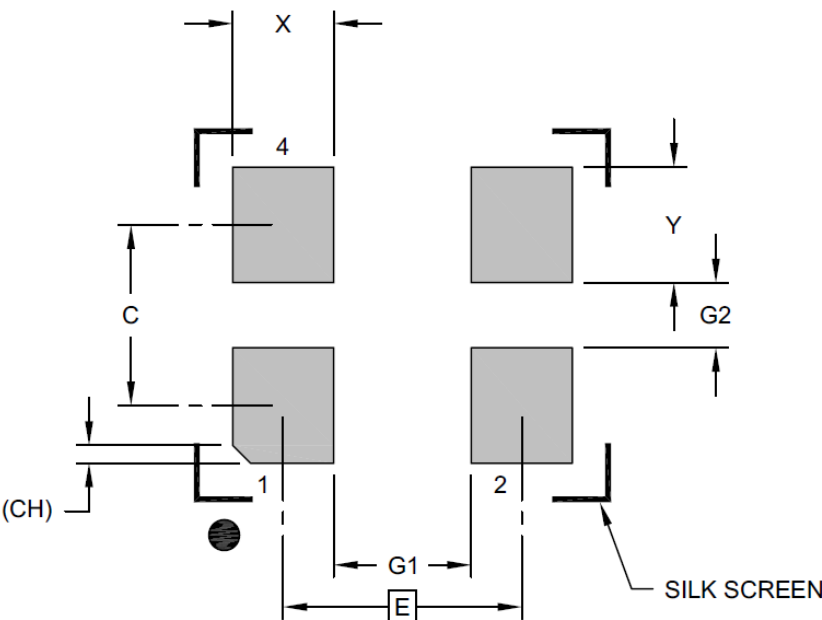


RoHS/RoHS II Compliant
MSL = MSL 1

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

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

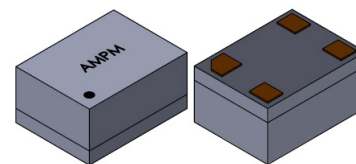


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AMPM-SERIES



ESD Sensitive



RoHS/RoHS II Compliant

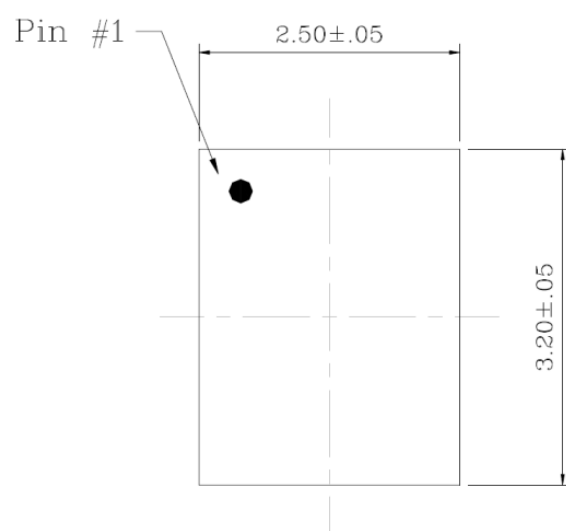
MSL = MSL 1

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

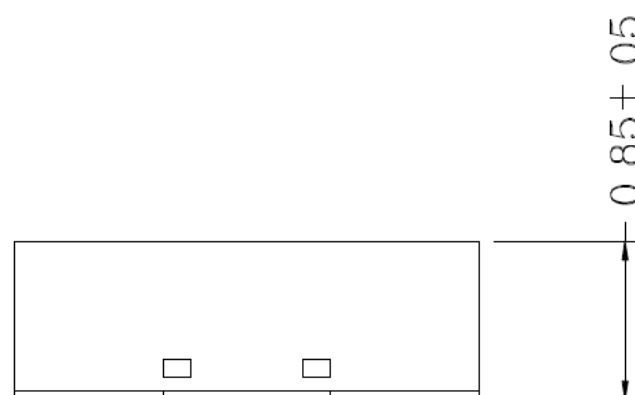
MECHANICAL DIMENSIONS

3.2 x 2.5 mm DFN Package Outline

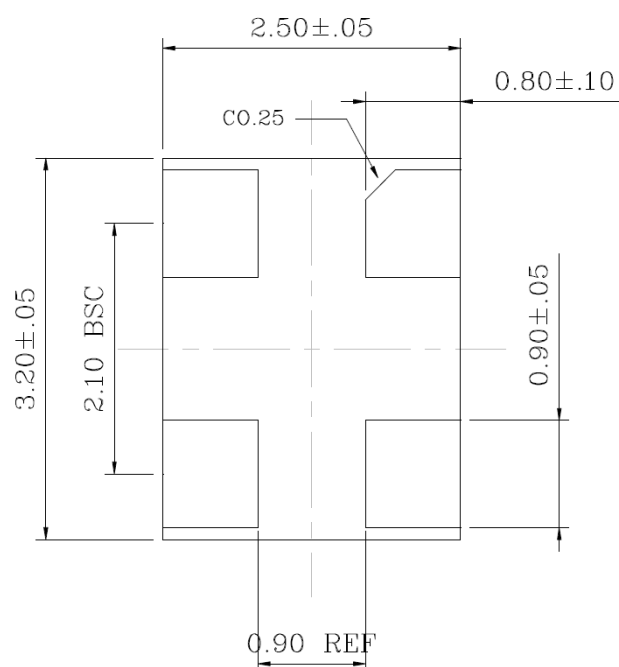
Top View



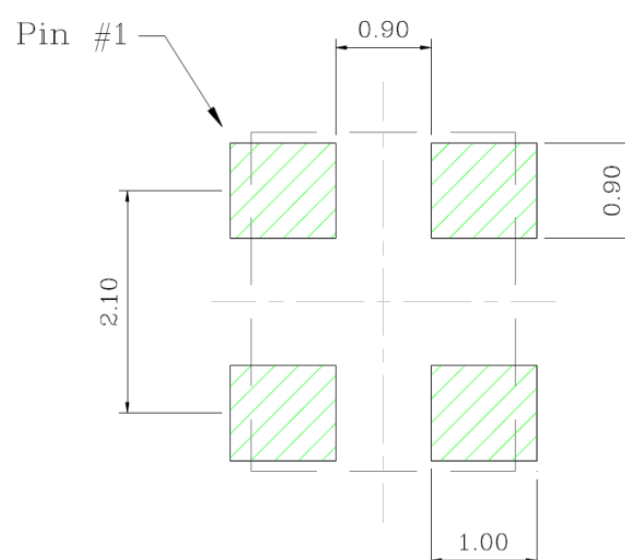
Side View



Bottom View

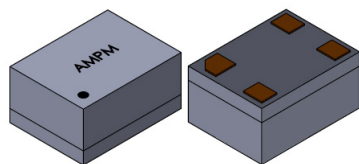


Recommended Landing Pattern



Dimensions : mm

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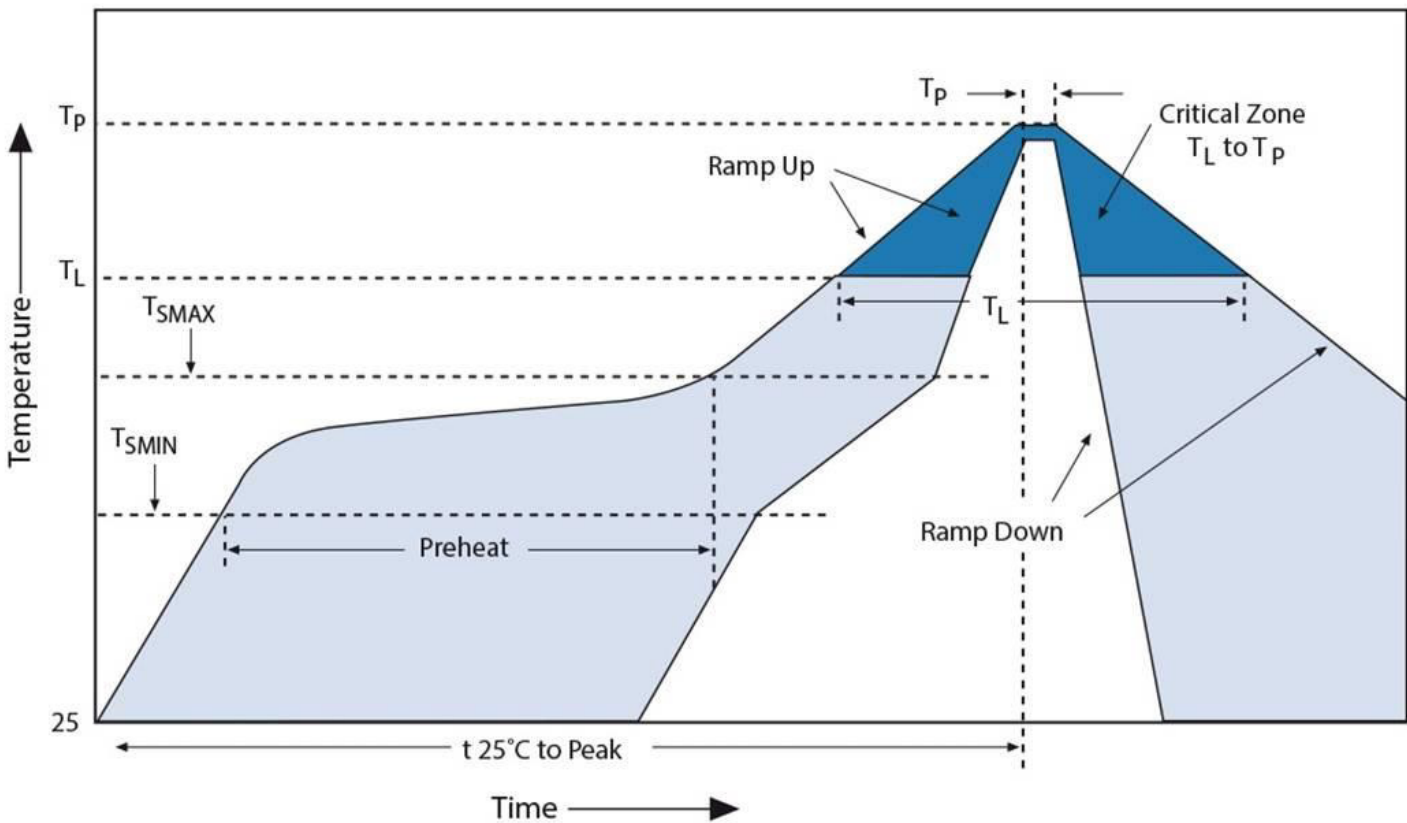


RoHS/RoHS II Compliant

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

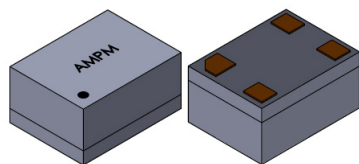
MSL = MSL 1

REFLOW PROFILE



Zone	Description	Temperature	Time
1	Preheat / Soak	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 180 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak heat	T_p 255°C - 260°C	20-40 sec. MAX.

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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

PACKAGING

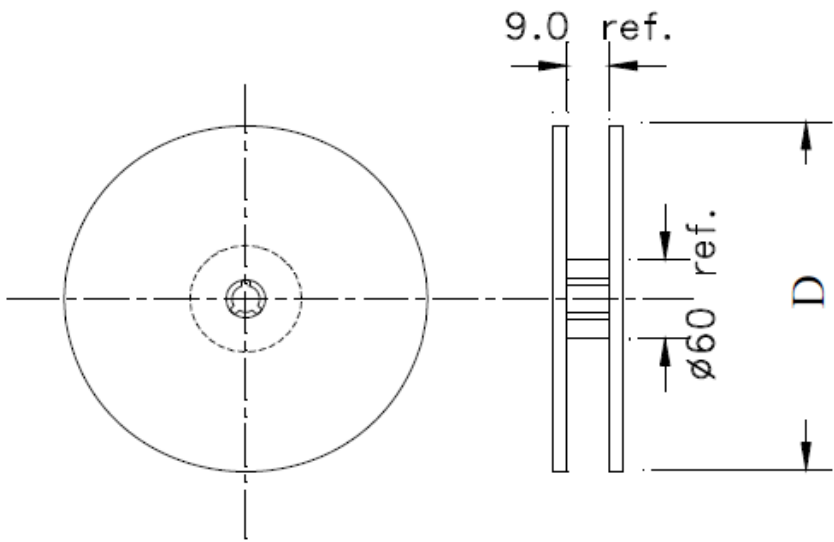
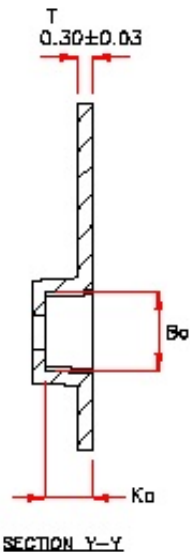
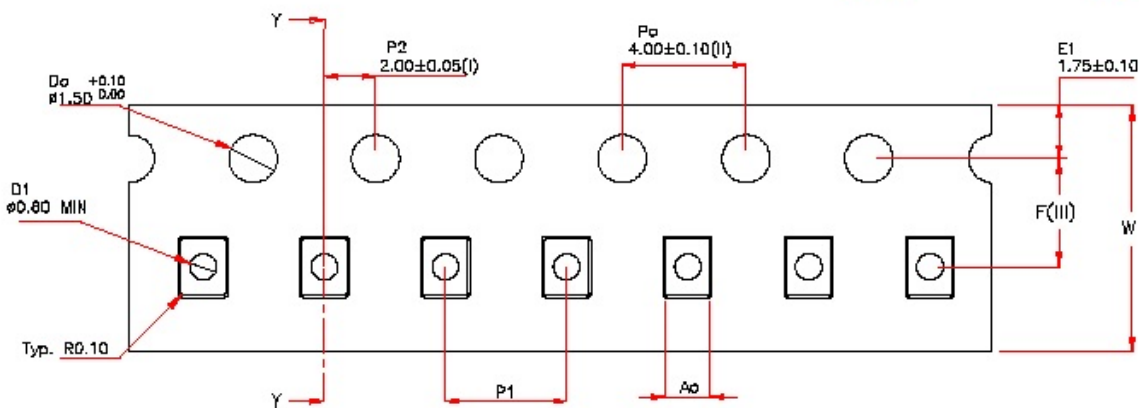
Bulk MOQ= 100pcs/Bag*

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 1000 pcs:
Bulk is not an option. Please refer to tape and reel packaging.

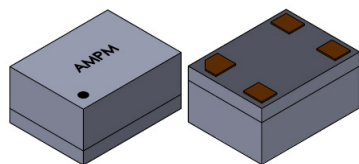


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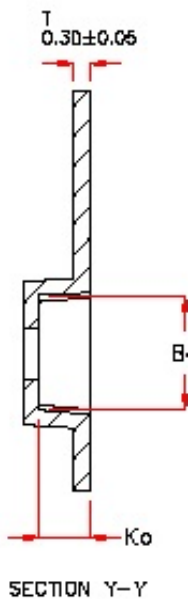
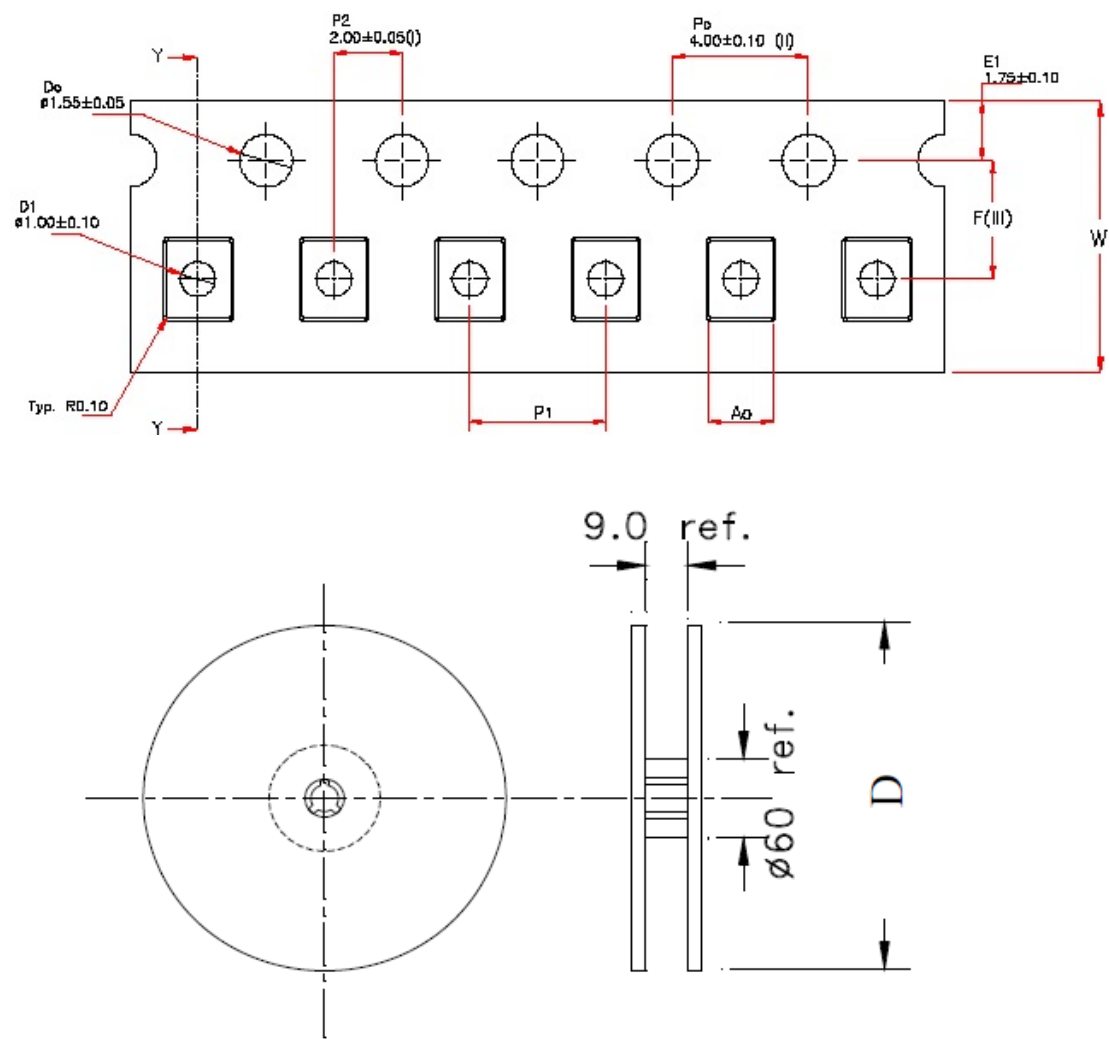
MSL = MSL 1

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= 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

* 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 1000 pcs:
Bulk is not an option. Please refer to tape and reel packaging.

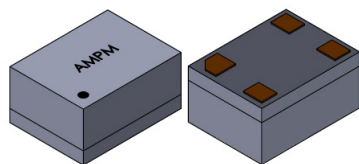


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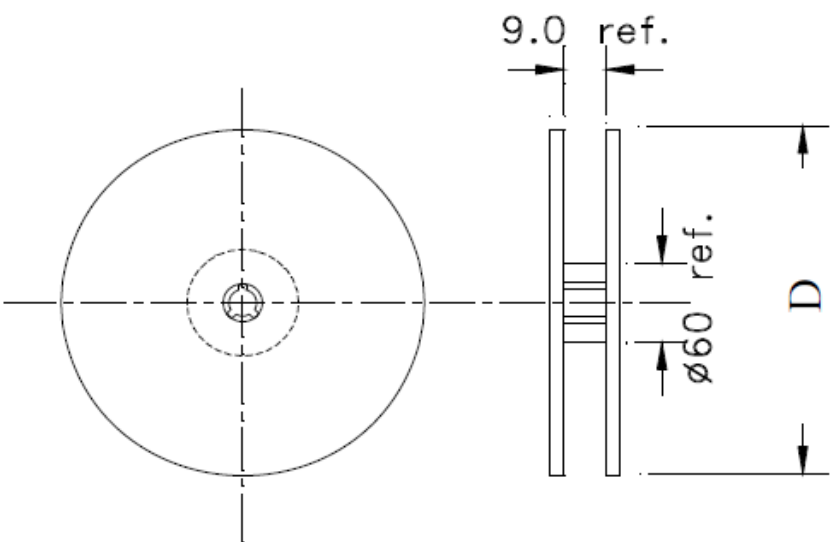
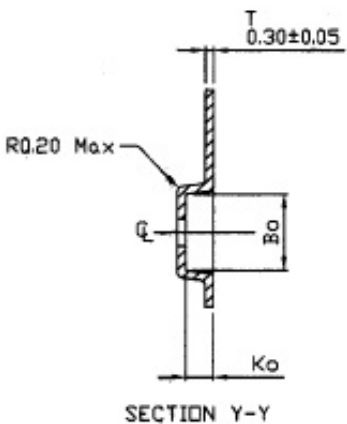
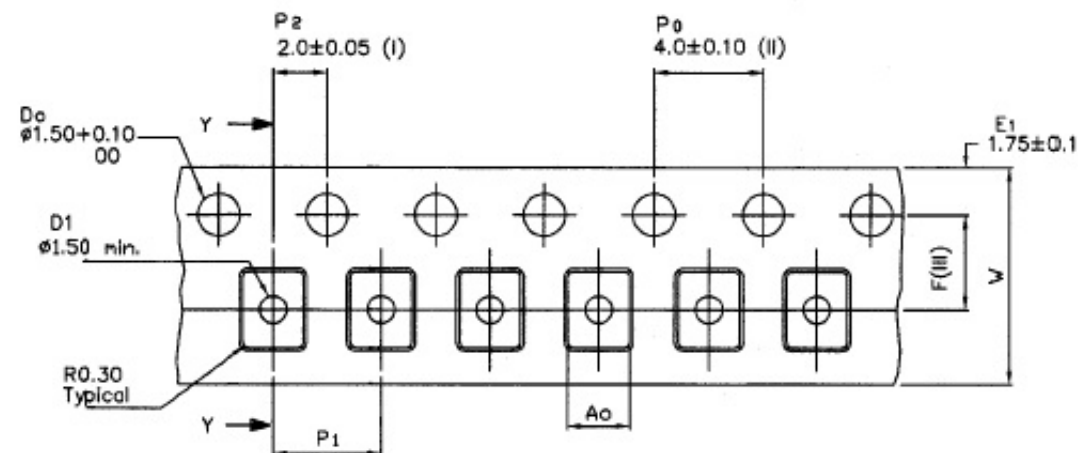
1.6 x 1.2 x 0.84 mm
2.0 x 1.6 x 0.84 mm
2.5 x 2.0 x 0.84 mm
3.2 x 2.5 x 0.85 mm

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 1000 pcs:
Bulk is not an option. Please refer to tape and reel packaging.

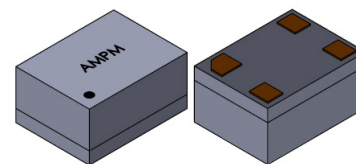


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MSL = MSL 1

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

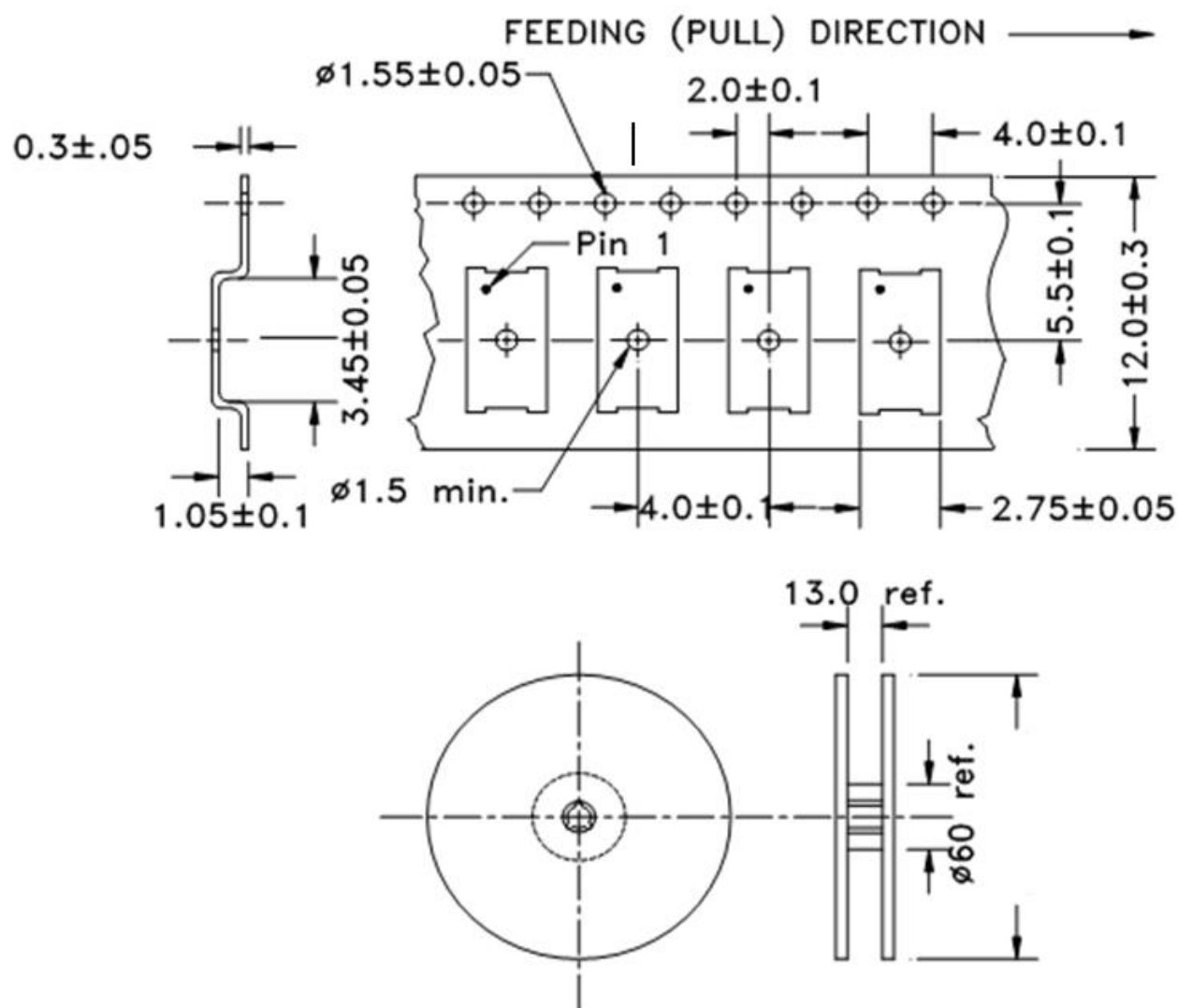
Bulk MOQ= 110pcs/Tube*

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

* 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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