

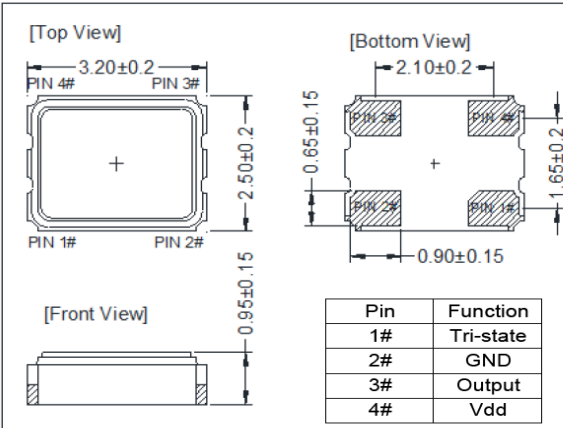


TYPICAL APPLICATION

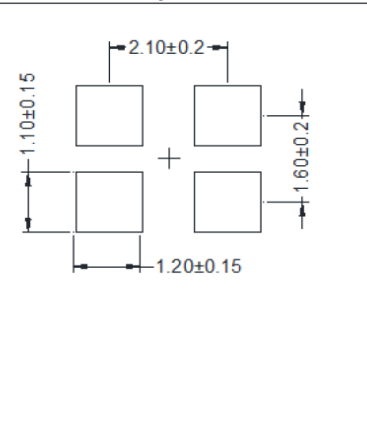
- WLAN/WiMAX
- Mobile Phone
- DSC, Set-Top Box, HDTV

DIMENSIONS (mm)

Product Dimensions



Solder Pad Layout Dimensions



ELECTRICAL SPECIFICATION

PARAMETERS	OMC-SMD3225						UNITS	CONDITIONS	
	3.3V		2.5V		1.8V				
	Min	Max	Min	Max	Min	Max			
Supply Voltage Variation(Vdd)	Vdd±10%						V		
Nominal Frequency	1.25	125	1.25	125	1.25	125	MHz		
Output Level (CMOS)	2.97	-	2.25	-	1.62	-	V	Output High (Logic "1")	
	-	0.33	-	0.25	-	0.18	V	Output Low (Logic "0")	
Supply Current	At 15pF Load		-	15	-	10	-	7	No Load Condition
	1.25MHz≤Fo<10MHz		-	1.5	-	1.5	-	1.2	
	10MHz≤Fo<20MHz		-	2	-	2	-	1.5	
	20MHz≤Fo<80MHz		-	3	-	3	-	1.5	
	80MHz≤Fo<125M		-	8	-	7	-	5	
Duty Cycle	45	55	45	55	45	55	%		
Transition Time: Rise / Fall Time+	1.25MHz≤Fo<10MHz	-	3	-	4	-	5	nSec	at 10% to 90% Vdd
	10MHz≤Fo<20MHz	-	3	-	3	-	4		at 10% to 90% Vdd
	20MHz≤Fo<80MHz	-	3	-	3	-	4		at 10% to 90% Vdd
	80MHz≤Fo<125MHz	-	3	-	3	-	4		at 10% to 90% Vdd
Start Time	-	2	-	2	-	2	mSec	at 25±3°C	
Output Loading	15		15		15		pF	-	
Tri-State (Input to Pin1)	2.31	-	1.75	-	1.26	-	V	Enable (High voltage or floating)	
	-	0.99	-	0.75	-	0.54	V	Disable (Low voltage or GND)	
Standby Current	-	10	-	10	-	10	μA	@-40oC to 85°C	
	-	20	-	20	-	20	μA	@-40oC to 125°C	
Period Jitter(Pk-Pk)	-	40	-	40	-	40	pSec	-	
RMS Phase Jitter	-	1	-	1	-	1	pSec	(Integrated 12 kHz~20 MHz)	
Aging (@ 25°C 1st year)	-	±3	-	±3	-	±3	ppm	-	
Storage Temp. Range	-55	125	-55	125	-55	125	°C	-	

FREQ. STABILITY vs. TEMP. RANGE

Temp. C°	ppm		
	±20	±25	±50
-10 ~ 60	○	○	○
-20 ~ 70	△	○	○
-40 ~ 85	X	○	○
-40 ~ 125	X	X	○

○: Available △:Conditional X: Not available



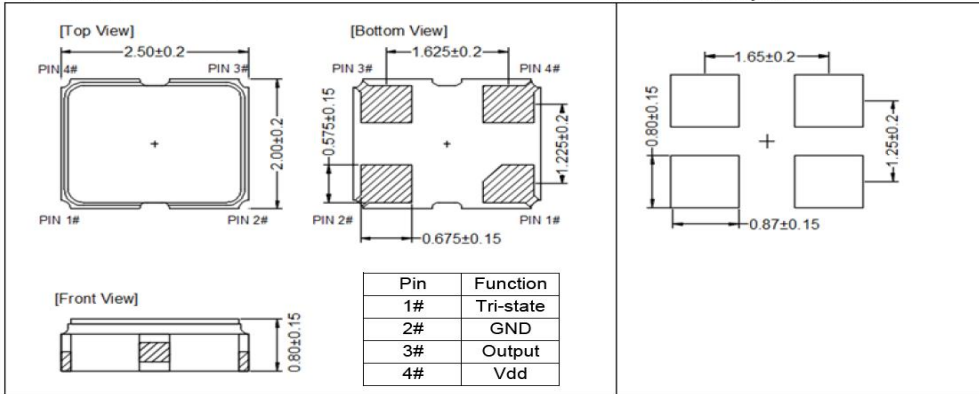
TYPICAL APPLICATION

- WLAN/WiMAX
- Mobile Phone
- DSC, Set-Top Box, HDTV

DIMENSIONS (mm)

Product Dimensions

Solder Pad Layout Dimensions



ELECTRICAL SPECIFICATION

PARAMETERS	OMD-SMD2520						UNITS	CONDITIONS	
	3.3V		2.5V		1.8V				
	Min	Max	Min	Max	Min	Max			
Supply Voltage Variation(Vdd)	Vdd±10%						V		
Nominal Frequency	1.25	125	1.25	125	1.25	125	MHz		
Output Level (CMOS)	2.97	-	2.25	-	1.62	-	V	Output High (Logic "1")	
	-	0.33	-	0.25	-	0.18	V	Output Low (Logic "0")	
Supply Current	At 15pF Load	-	15	-	10	-	7	mA	No Load Condition
	1.25MHz≤Fo<10MHz	-	1.5	-	1.5	-	1.2	mA	
	10MHz≤Fo<20MHz	-	2	-	2	-	1.5	mA	
	20MHz≤Fo<80MHz	-	3	-	3	-	1.5	mA	
	80MHz≤Fo<125MHz	-	8	-	7	-	5	mA	
Duty Cycle	45	55	45	55	45	55	%		
Transition Time: Rise / Fall Time+	1.25MHz≤Fo<10MHz	-	3	-	4	-	5	nSec	at 10% to 90% Vdd
	10MHz≤Fo<20MHz	-	3	-	3	-	4		at 10% to 90% Vdd
	20MHz≤Fo<80MHz	-	3	-	3	-	4		at 10% to 90% Vdd
	80MHz≤Fo<125MHz	-	3	-	3	-	4		at 10% to 90% Vdd
Start Time	-	2	-	2	-	2	mSec	at 25±3°C	
Output Loading	15		15		15		pF	-	
Tri-State (Input to Pin1)	2.31	-	1.75	-	1.26	-	V	Enable (High voltage or floating)	
	-	0.99	-	0.75	-	0.54	V	Disable (Low voltage or GND)	
Standby Current	-	10	-	10	-	10	µA	@-40oC to 85°C	
	-	20	-	20	-	20	µA	@-40oC to 125°C	
Period Jitter(Pk-Pk)	-	40	-	40	-	40	pSec	-	
RMS Phase Jitter	-	1	-	1	-	1	pSec	(Integrated 12 kHz~20 MHz)	
Aging (@ 25°C 1st year)	-	±3	-	±3	-	±3	ppm	-	
Storage Temp. Range	-55	125	-55	125	-55	125	°C	-	

FREQ. STABILITY vs. TEMP. RANGE

Temp.C°	ppm	±20	±25	±50
-10 ~ 60		○	○	○
-20 ~ 70		△	○	○
-40 ~ 85		X	○	○
-40 ~ 125		X	X	○

○: Available △:Conditional X: Not available



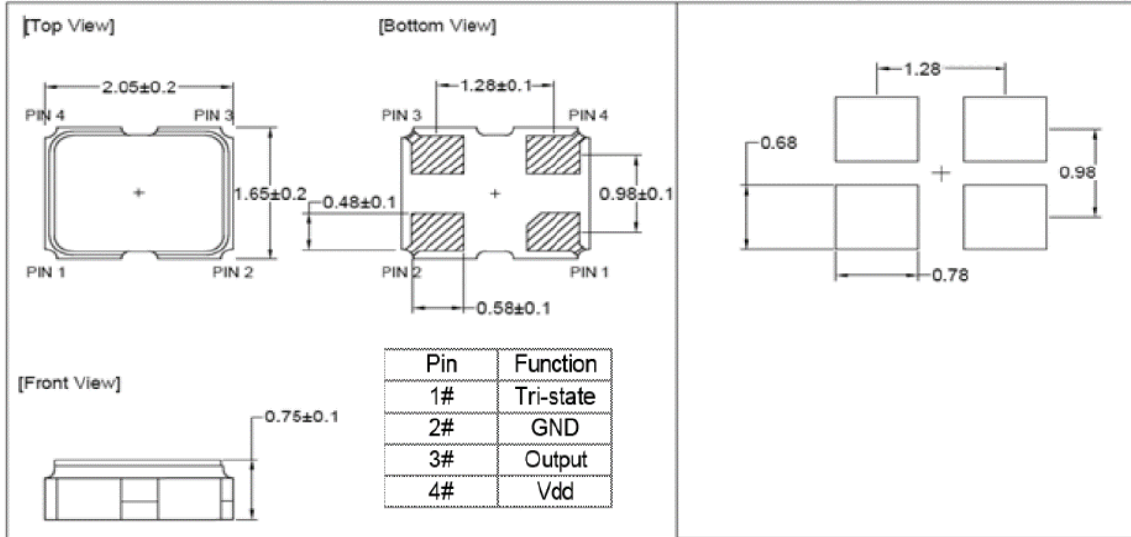
TYPICAL APPLICATION

- WLAN/WiMax
- Mobile Phone
- DSC, Set-top Box, HDTV

DIMENSIONS (mm)

Product Dimensions(mm)

Solder Pad Layout Dimensions(mm)



ELECTRICAL SPECIFICATION

PARAMETERS	OME-SMD2016						UNITS	CONDITIONS
	3.3V		2.5V		1.8V			
	Min	Max	Min	Max	Min	Max		
Supply Voltage Variation(Vdd)	Vdd±10%						V	
Nominal Frequency	1.5	50	1.5	50	1.5	50	MHz	
Output Level (CMOS)	2.97	-	2.25	-	1.62	-	V	Output High (Logic "1")
	-	0.33	-	0.25	-	0.18	V	Output Low (Logic "0")
Supply Current	-	15	-	10	-	7	mA	
Duty Cycle	45	55	45	55	45	55	%	
Transition Time: Rise / Fall Time+	-							
	-	4	-	4	-	5	nSec	at 10% to 90% Vdd
	-	3	-	3	-	4	nSec	at 10% to 90% Vdd
Start Time	-	2	-	2	-	2	mSec	at 25±3°C
Output Loading	15		15		15		pF	-
Tri-State (Input to Pin1)	2.31	-	1.75	-	1.26	-	V	Enable (High voltage or floating)
	-	0.99	-	0.75	-	0.54	V	Disable (Low voltage or GND)
Standby Current	-	10	-	10	-	10	µA	-
Period Jitter(Pk-Pk)	-	40	-	40	-	40	pSec	-
RMS Phase Jitter	-	1	-	1	-	1	pSec	(Integrated 12 kHz~20 MHz)
Aging (@ 25°C 1st year)	-	±3	-	±3	-	±3	ppm	-
Storage Temp. Range	-55	125	-55	125	-55	125	°C	-

FREQ. STABILITY vs. TEMP. RANGE

Temp.°C \ ppm	±20	±25	±50
-10 ~ 60	○	○	○
-20 ~ 70	△	○	○
-40 ~ 85	X	△	○
-40 ~ 125	X	X	○

○: Available △: Conditional X: Not available

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