

(PRELIMINARY) Note : This spec can be changed without prior notice.

1.PART NUMBER **MQW6D0D1G76**

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2-1.CONDITIONS

The specifications shall be valid under the following conditions:

Parameter	Symbol	Limits			Unit
		min.	typ.	max.	
Supply Voltage	Vb	2.6	2.8	3	V
Control Voltage Range	Vc	0.4		2.3	V
Load Impedance					ohm
Temperature Range		-30	25	85	degC

2-2.ELECTRICAL CHARACTERISTICS

Parameter	Condition	Limits			Unit		
		min.	typ.	max.			
Current Consumption		-	-	13	mA		
Vc Leakage Current		-	-	1	nA		
Operating Frequency Range	L-Band	Vc= Vcmin.	-	-	1738	MHz	
		Vc= Vcmax.	1788	-	-		
	H-Band	Vc= Vcmin.	-	-	3860		
		Vc= Vcmax.	3980	-	-		
Control Voltage Sensitivity	L-Band	Vc= 0.4 ~ 2.3 V Ave.		33	-	47	MHz/V
	H-Band			74	-	106	
Output Level				-7	-	2	dBm
C/N	L-Band	1 kHz sep.	-	-	-59	dBc/Hz	
		10 kHz sep.	-	-	-79		
		100 kHz sep.	-	-	-99		
		600 kHz sep.	-	-	-114		
		900 kHz sep.	-	-	-124		
	>=3 MHz sep.	-	-	-133			
	H-Band	1 kHz sep.	-	-	-54		
		10 kHz sep.	-	-	-79		
		100 kHz sep.	-	-	-99		
		600 kHz sep.	-	-	-114		
1250 kHz sep.		-	-	-124			
Pushing Figure	L-Band	Vb= 2.80 +/- 0.20 V, ref:Vb= 2.80 V		-1.0	-	1.0	MHz
	H-Band			-3.0	-	3.0	
Pulling Figure	L-Band	VSWR=2.0 for all phase, ref:50ohm,at 25degC		-3.0	-	3.0	MHz
	H-Band			-6.0	-	6.0	
Harmonics	L-Band	Up to 3rd		-	-	-10	dBc
	H-Band			-	-	-15	
Non-harmonics				-	-	-80	dBc

2-3. LOGIC CONDITION

Parameter	Condition	Limits			Unit
		min.	typ.	max.	
Low/High Band Select Voltage	Low band select	2.2	-	-	V
	High band select	-	-	0.45	
Switch Current	Band Select set to Low		-	100	uA
Switch Time Between Band			-	10	usec

2-4. SWITCHING LOGIC

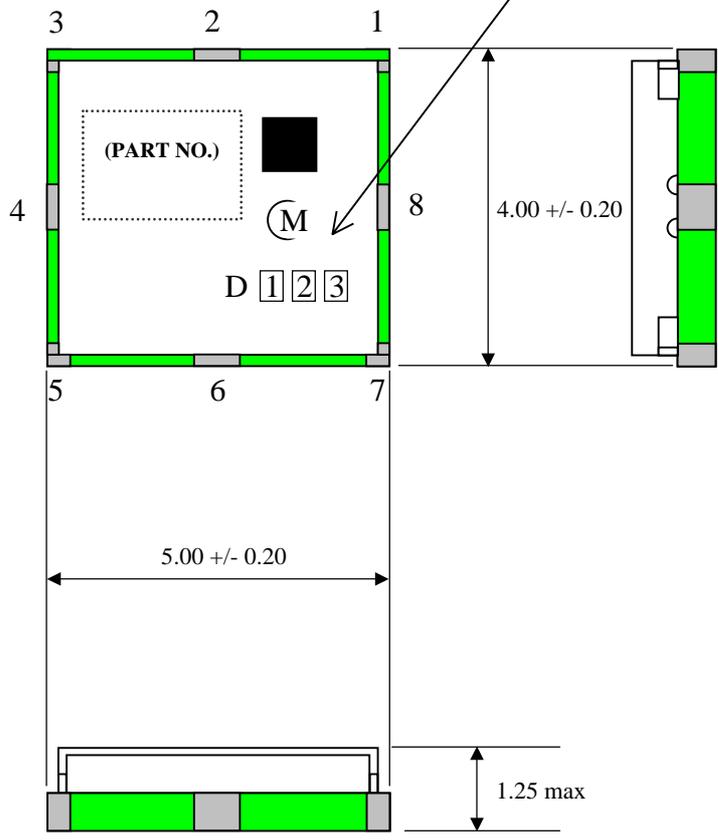
	SW1
Low	1
High	0

3.DIMENSIONS: W6D000125AA

3. DIMENSIONS:W6D000125AA TYPE

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Part No.,Manufacturer's Mark and Lot No.



Lot No.

D: Factory Code

1 : End figure of the Christian Era.

2,3: Week No.

1: OUTPUT

2: GROUND

3: SWITCH SUPPLY

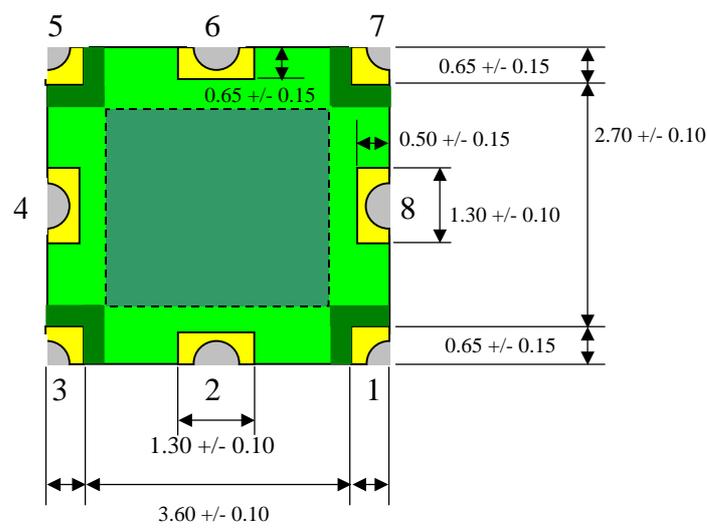
4: GROUND

5: CONTROL VOLTAGE

6: GROUND

7: POWER SUPPLY

8: GROUND



NOTE:

The terminals are not marked on the case.

Terminals : - Gold plating

- Solder plating

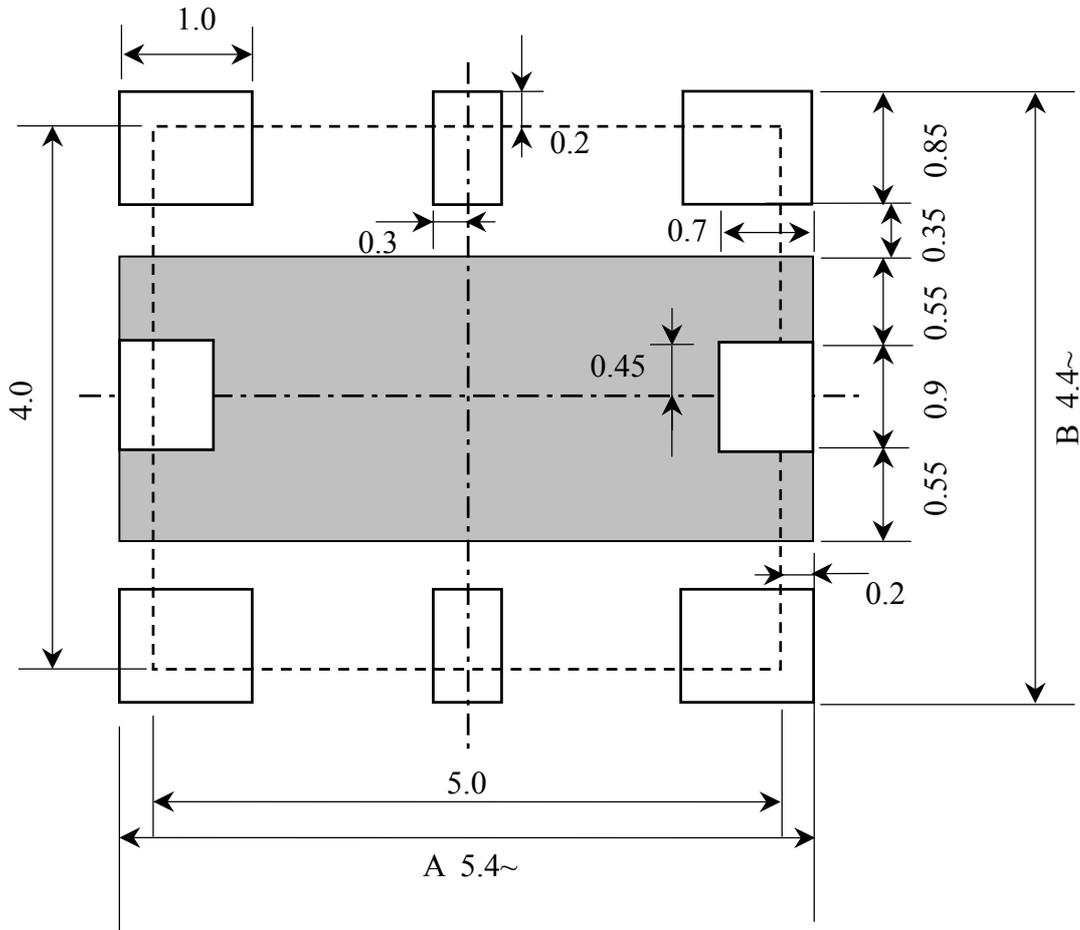
Resist : - Cover of resist spreading

Unit (mm)

PRELIMINARY

MQW6D series
RECOMMENDED PATTERN FOR ACTUAL MOUNTING

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Unit [mm]

NOTE

The half - toned part should be conductor covered with resist.
 Please decide the dimensions of A and B as per the mounting accuracy of the chip mounter.



Messrs. QCT

Proof: RoHS compliance Product

Issued Date: Sep.12th.2006

Products Description: VCO
Murata Part Number: MQW11*, MQW6D*, MQR* series

Dear Sirs,

Thank you for using Murata microwave products.
We would like to notice that MQW11*, MQW6D*, MQR* series have always been RoHS compliant.

If you have any questions, please feel free to contact us.

Sincerely,

Signature : 

Name: Yuichi Tannan

Product Management, Microwave Group
Company: Murata Electronics North America, Inc.



Test Report No. F690501/LF-CTSGP05-1439

Date: October 27, 2005

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To: MURATA ELECTRONICS CO., LTD.
14th Fl., Haesung 2Bldg., 942-10
Daechi-dong
Gangnam-gu
SEOUL 135-725
Korea

The following merchandise was submitted and identified by the client as :

Commodity : Microwave Oscillators (VCOs)
SGS File No. : GP05-1439
Received Date : October 25, 2005
Test Performing Date : October 26, 2005
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)

SGS Testing Korea Co. Ltd.

Jason Han / Lab Director

Jeff Jang / Technical Mgr

**Test Report No. F690501/LF-CTSGP05-1439**

Date: October 27, 2005

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Sample No. : GP05-1439.001
Sample Description : Microwave Oscillators (VCOs)
Style/Item No. : MQW6 Series
Comments : The test was performed with MQW6A0A869M

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium(Cd)	mg/kg	USEPA 3050B, ICP-AES	0.5	N.D.
Lead (Pb)	mg/kg	USEPA 3050B, ICP-AES	5	65.3
Mercury (Hg)	mg/kg	USEPA 3052, ICP-AES	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	USEPA 3060A, UV-vis	1	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Monobromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.

*** End ***

NOTE: N.D. = Not detected.(<MDL)
ppm = mg/kg
MDL = Method Detection Limit
"- " = No Regulation
** = Qualitative analysis (No Unit)
Negative = Undetectable / Positive = Detectable

To: Kathy@ckassoc.com, Shelley Tancil <stancil@qualcomm.com>
Cc: awhite@qualcomm.com, mrosa@ckassoc.com
Subject: Fw: Delivery delay for PO # SJ00890-4 Action Required
From: ytannan@murata.com
Date: Mon, 23 Oct 2006 13:30:00 -0700

Sorry everybody.
1 more change.....

muRata would like to have "P" as final character.

"R6P" means 3kpcs on T/R with aluminum pack.

Could you please update the PO again?

Regards,

U Tannan
Product Engineer
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Email ytannan@murata.com