

# SPECIFICATION OF DELTA VCO MODULE ( Model NO. : DMP-VCX2074S6)

## 1. Electrical Characteristics

1.1	Operating Frequency	( VT= 0.5 V )	$\leq$ 2023 MHz
		( VT= 2.2V )	$\geq$ 2125 MHz
1.2	Tuning Sensitivity		80 $\pm$ 10 MHz/V
1.3	Power Output	(VT= 0V~3V)	0 $\pm$ 3 dBm
1.4	Pushing Figure ( max. )	( VCC= 2.84 $\pm$ 0.1 V )	$\pm$ 2.0 MHz
1.5	Pulling Figure ( max. )		6.0MHz
		( VSWR = 2.0:1, For All Phase, Ref. = 50 $\Omega$ )	
1.6	Phase Noise ( C/N )	( At 10 KHz Offset )	$\leq$ - 90 dBc/Hz
1.7	Phase Noise ( C/N )	( At 100 KHz Offset )	$\leq$ - 110 dBc/Hz
1.8	Spurious Response ( 2 <sup>nd</sup> Harmonics )		$\leq$ - 15 dBc
1.9	Input Impedance		$\geq$ 10 M $\Omega$
1.10	Input Capacitance		$\leq$ 47 Pf
1.11	Load Impedance		50 $\Omega$

## 2. Ratings

2.1	Supply Voltage( VCC )	2.84 $\pm$ 0.1 V
2.2	Supply Current	$\leq$ 15 mA
2.3	Tuning Voltage( VT )	0.5 ~ 2.2V
2.4	Operating Frequency	2023 ~ 2125 MHz
2.5	Operating Temperature Range	-20 ~ +75 $^{\circ}$ C
2.6	Absolute Maximum Ratings	
2.6.1	Supply Voltage	4V
2.6.2	Storage Temperature	-40 ~ +85 $^{\circ}$ C

## 3. Housing

3.1	Case Material	Nickel Silver
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台達電子工業股份有限公司  
DELTA ELECTRONICS, INC.

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MODEL NO.

**DMP-VCX2074S6**

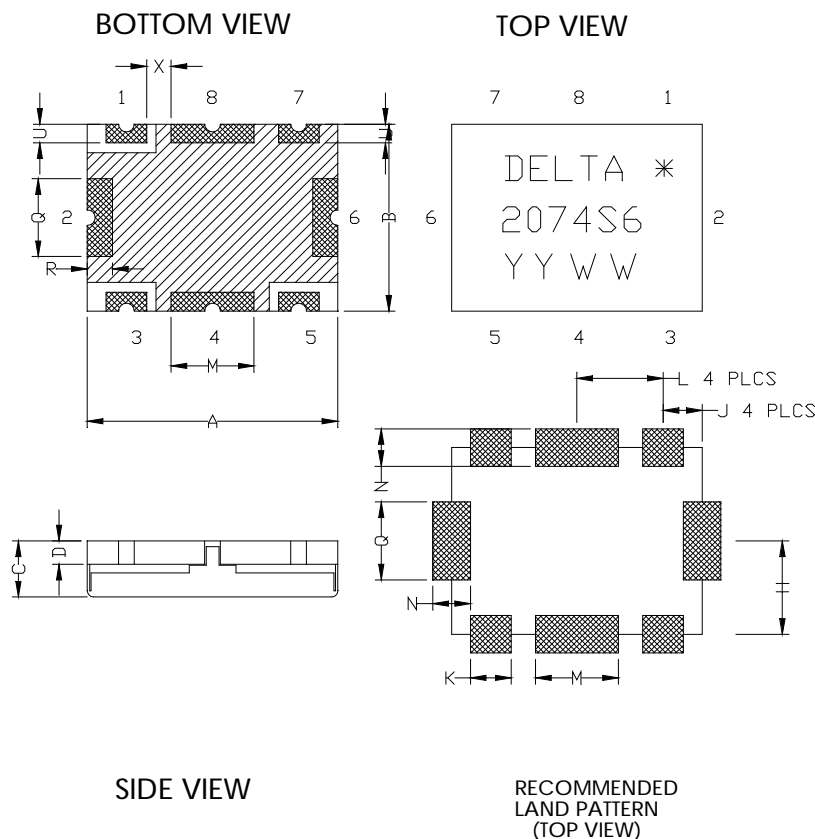
Date	Drawn	Checked	Approved	DOCUMENT NO. : ES-VCX2074S6	REV.
Feb. 20 2002	JJ Sung	Kevin Lin	Susan Lin		S1

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**Note:**

1. INSIDE RADIUS OF ALL HALF HOLES ON PERIMETER OF THE BOARD ARE SOLDER PLATED FOR ATTACHMENT.
2. SHIELD MATERIAL IS NICKLE SILVER AND IS SOLDERABLE.
3. YYWW IS THE DATE CODE. YY=YEAR, WW=WEEK.
4. PIN ONE IS MARKED WITH THE SYMBOL " \* " FOR ORIENTATION.

PIN OUT FOR VCO	
	PIN
RF OUTPUT	1
VCC	3
VT	5
GND	2,4,6,7,8
*	1



SYMBOL	DIMENSION MILLIMETERS
A	8.0±0.2
B	6.0±0.2
C	1.7MAX
D	0.75
H	3.0
J	1.26
K	1.30±0.08
L	2.65±0.08
M	2.65±0.08
N	1.20±0.08
P	1.27±0.08
Q	2.5±0.08
R	0.8±0.08
U	0.6
X	1.00



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