



## VCO Specifications

Unit Name	Voltage Controlled Oscillator
Part Name	KSV-3.3M440AY
Date	September 13, 2005

Written by	Checked by	Approved by



Systron Inc.  
1274 - 3<sup>rd</sup> Avenue South  
Lethbridge, Alberta  
T1J 0J9 Canada

Phone: (403) 327-1444  
Fax: (403) 327-1480  
e-mail: [sales@systroninc.com](mailto:sales@systroninc.com)

Customer:

**PRELIMINARY SPEC**

No. :

**KSV-3.3S440AY**

Date : Sep, 13, 2005

**1. PART NUMBERING**

KSV — 3.3 V 440 AY  
 ①                      ②      ③      ④      ⑤

- ① Denote V. C. O
- ② Operating voltage
- ③ V. C. O type
- ④ Center frequency
- ⑤ Revision

**2. HOUSING DIMENDIONS**

- 2-1 Circuit
- 2-2 Resonator
- 2-3 Terminal
- 2-4 Case
- 2-5 Dimensions

Hybrid Integrated Circuit  
 Micro Strip Line  
 SMD Type  
 Steel Sn-Pb Plating  
 See Fig -1

**3. ELECTRICAL CHARACTERISTICS**

<u>ITEM</u>	<u>SPEC</u>			<u>UNIT</u>	<u>TEST CONDITION</u>
	MIN.	TYP.	MAX.		
3-1 Operating Voltage (Vcc)	3.14	3.3	3.46	Vdc	
3-2 Output Level	0	3	6	dBm	Vcc = 3.3V
3-3 Current Consumption (Icc)		15		mA	
3-4 Tuning Sensitivity(avg.)		<u>22</u>		MHz/V	Vt = 0.3 ~ 3.0V
3-5 Tuning Voltage (Vt)	0.3		3.0	Vdc	
3-6 Oscillation Frequency			410	MHz	Vt=1V
	470			MHz	Vt=4V
3-7 C/N ( @10 KHz offset )		-95		dBc / Hz	
C/N ( @100 KHz offset )		-114		dBc / Hz	
C/N ( @ 1 MHz offset )		-135		dBc / Hz	
3-8 Pushing Figure		TBD		kHz/V	
3-9 Pulling		TBD			
3-10 2'nd Harmonic			-10	dBc	
3-11 Load Impedance		50		Ω	
3-12 Operating Temperature	-30		+70	℃	

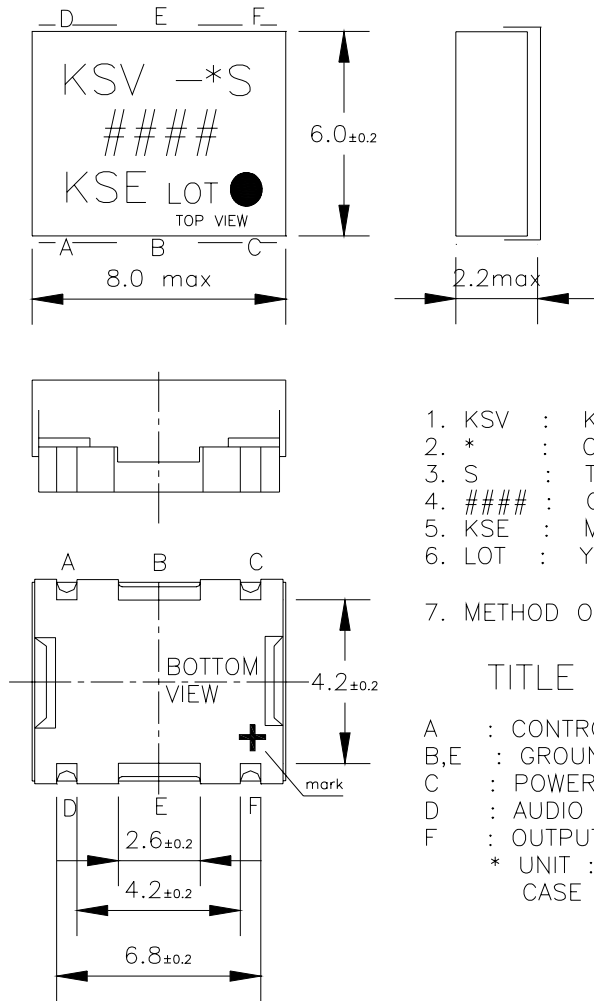
# SPECIFICATIONS

No. :

## S-TYPE

Date :

**FIG. 1 DIMENSIONS**



1. KSV : KOREA SANGSHIN VCO
2. \* : OPERATING VOLTAGE
3. S : TYPE
4. #### : CENTER FREQUENCY
5. KSE : MANUFACTURER
6. LOT : YYWW ( YY THE YEAR OF MFG  
WW THE WEEK OF MFG)
7. METHOD OF PRINTING : BLACK SILKSCREEN

### TITLE OF TERMINAL

- A : CONTROL VOLTAGE
- B,E : GROUND
- C : POWER SUPPLY
- D : AUDIO MODULATION (OR N.C)
- F : OUTPUT POWER
- \* UNIT : mm
- CASE t : 0.2mm