



VCO Specifications

Unit Name	Voltage Controlled Oscillator
Part Name	KSV-3.3V140AY
Date	November 14, 2002

Written by	Checked by	Approved by



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Customer:	PRELIMINARY SPEC	No. :
K . S . E .	KSV-3.3V140AY	Date : NOV 14 , 2002

1. PART NUMBERING

$\frac{\text{K S V}}{\text{①}} - \frac{\text{3.3 V}}{\text{②}} \frac{\text{140}}{\text{③ ④}}$

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

2. HOUSING DIMENSIONS

2-1 Circuit	Hybrid Integrated Circuit
2-2 Resonator	Micro Strip Line
2-3 Terminal	SMD Type
2-4 Case	Steel Sn-Pb Plating
2-5 Dimensions	See Fig -1

3. ELECTRICAL CHARACTERISTICS

<u>ITEM</u>	<u>SPEC</u>	<u>UNIT</u>
3-1 Operating Voltage (Vcc)	3.3 ± 0.15	Vdc
3-2 Output Power	0 ± 3	dBm
3-3 Current Consumption (Icc)	max. 20	mA
3-4 Tuning Sensitivity(avg.)	min. 1	MHz/V
3-5 Tuning Voltage (Vt)	0.0 to 3.3	Vdc
3-6 Oscillation Frequency		MHz
Vt = 0.0 V	< 139	
Vt = 3.3 V	> 141	
3-7 C/N (@ 1 KHz offset)		dBc / Hz
C/N (@10 KHz offset)	max. - 100	dBc / Hz
C/N (@ 100 KHz offset)	max. - 120	dBc / Hz
3-8 Pushing Figure (Vcc ± 0.15)	max. ± 300	kHz
3-9 Spurious Response (2'nd Harmonic)	Max. - 15	dBc
3-10 Load Impedance	50	Ω
3-11 Operating Temperature	- 35 ~ + 80	C

SPEC

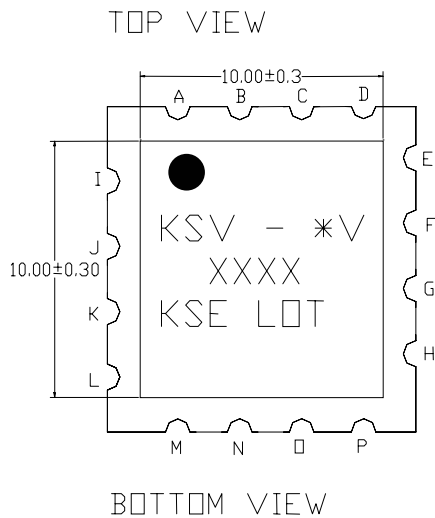
No. :

K. S. E.

V - TYPE

Date :

FIG. 1 DIMENSIONS

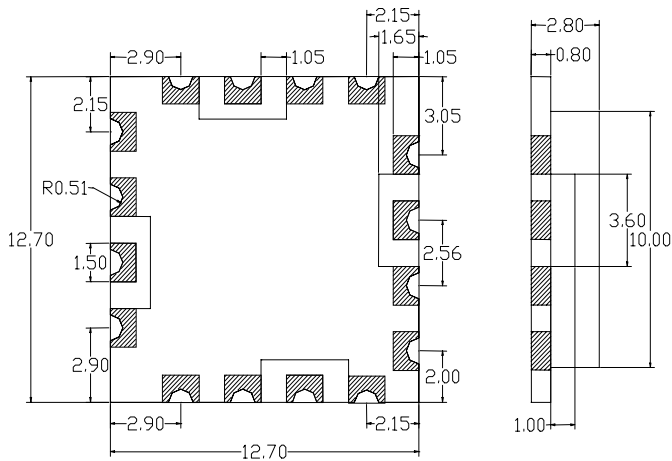


1. KSV : KOREA SANGSHIN VCO
2. * : OPERATING VOLTAGE
3. V : TYPE
4. XXXX: CENTER FREQUENCY
5. KSE : MANUFACTURER
6. LOT : YYWW (YY THE YEAR OF MFG
WW THE WEEK OF MFG)
7. METHOD OF PRINTING : BLACK SILKSCREEN

TITLE OF TERMINAL

- A,B,D,E,F,H,I,K,L,M,O,P : GROUND
 C : POWER SUPPLY
 G : OUTPUT POWER
 J : CONTROL VOLTAGE
 N : AUDIO MODULATION (OR N.C)

* UNIT : mm
 CASE t : 0.15 mm



REVISION	D E S C R I P T I O N	DATE	DESIGN	CHECK	APPROVAL