



VCO Specifications

Unit Name	Voltage Controlled Oscillator
Part Name	KSV-3.3V553BY
Date	January 21, 2003

Written by	Checked by	Approved by



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Customer:	PRELIMINARY SPEC	No. :
K . S . E .	KSV-3.3V553BY	Date : JAN 21 , 2003

1. PART NUMBERING

K S V — 3.3 V 553BY
 ① ② ③ ④

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

2. HOUSING DIMENDIONS

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. 9.26	MHz/V
3 – 5 Tuning Voltage (Vt)	0.0 to 3.3	Vdc
3 – 6 Oscillation Frequency		MHz
Vt = 0.3 V	< 540	MHz
Vt = 3.0 V	> 565	MHz
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. ± 500	kHz
3 – 9 Spurious Response (2'nd Harmonic)	Max. – 15	dBc
3 – 10 Load Impedance	50	Ohm
3 – 11 Operating Temperature	- 40 ~ + 85	°C
3 – 12 Pulling Figure (VSWR 2:1 all phases)	1	MHz

Customer:

SPEC

No. :

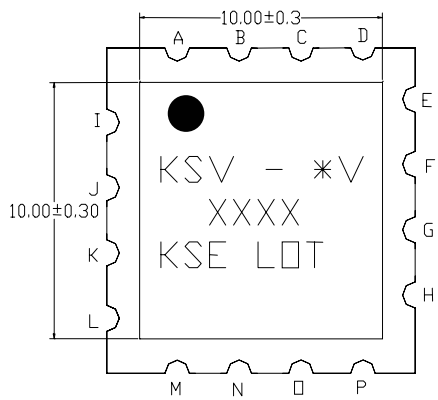
K . S . E .

V - TYPE

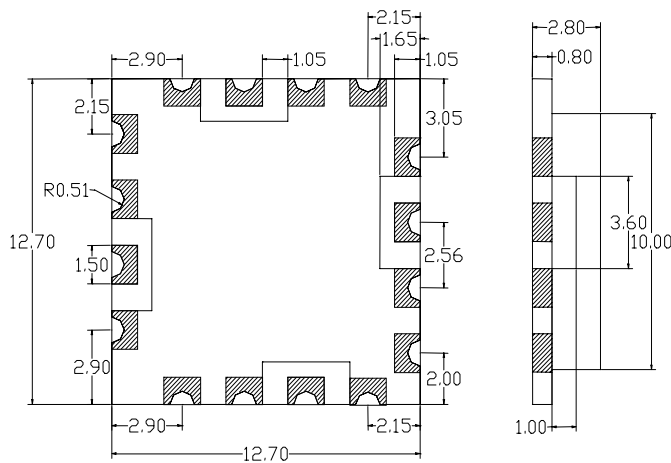
Date : JAN 21, 2003

FIG. 1 DIMENSIONS

TOP VIEW



BOTTOM VIEW



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