



VCO Specifications

Unit Name	Voltage Controlled Oscillator
Part Name	KSV-3.3M985AY
Date	January 27, 2003

Written by	Checked by	Approved by



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Customer:	PRELIMINARY SPEC	No. :
K . S . E .	KSV-3.3M985AY	Date : JAN 27 , 2003

1. PART NUMBERING

K S V — 3.3 M 985 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)	3.15	3.3	3.45	Vdc	
3 – 2 Output Level	-5		1	dBm	Vcc = 3.3V
3 – 3 Current Consumption (Icc)			20	mA	Vcc = 3.3V
3 – 4 Tuning Sensitivity(avg.)	10			MHz/V	Vt = 0.3 ~ 3.0V
3 – 5 Tuning Voltage (Vt)	0.3		3.0	Vdc	
3 – 6 Oscillation Frequency			972	MHz	Vcc = 3.3V, Vt = 0.3V
			998	MHz	Vcc = 3.3V, Vt = 3.0V
3 – 7 C/N (@ 10 KHz offset)			-97	dBc / Hz	
C/N (@100 KHz offset)			-118	dBc / Hz	Vcc = 3.3V, Vt = 1.7V
C/N (@ 500 KHz offset)			-125	dBc / Hz	
C/N (@ 1 MHz offset)			-130	dBc / Hz	
3 – 8 Pushing Figure			±500	kHz	Vcc = 3.3V±0.15V
3 – 9 2'nd Harmonic			-15	dBc	
3 – 10 Load Impedance		50		Ohm	
3 – 11 Operating Temperature	-40		+85	°C	
3 – 12 Pulling Figure			2	MHz	12dB Return Loss

SPECIFICATIONS

No. :

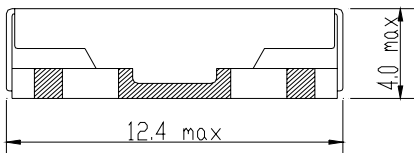
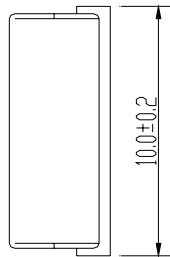
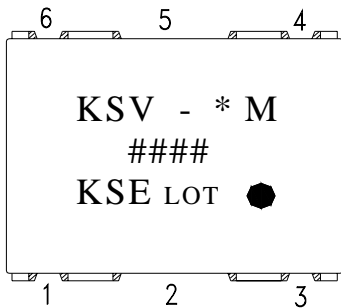
K . S . E .

M-TYPE

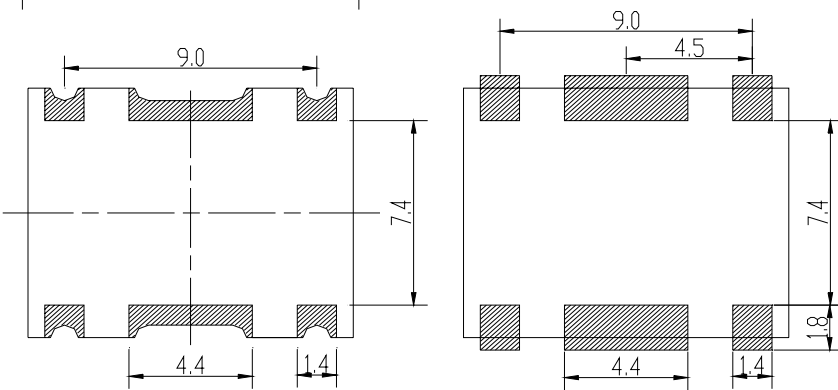
Date :

FIG. 1 DIMENSIONS

NO	FUNCTIONS
1	Tuning Voltage
2	GND
3	Supply Voltage
4	RF OUT
5,6	GND



UNIT : mm
 Tolerance : ± 0.2



MARKING

KSV Korea Sangshin VCO
 * Supply Voltage
 M Type

Center Frequency
 KSE Manufacturer
 LOT YYWW date