

MESSRS.	PRELIMINARY SPEC	No.: 1/2
S. S. E. C	KSV-5V150E	Date : Feb. 23, 2015

1. PART NUMBERING

KSV
①

-

5
②

V

150E
④

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 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)	4.75 5.0 5.25	Vdc	
3 – 2 Output Level	1 3 5	dBm	
3 – 3 Current Consumption (Icc)	15 20	mA	
3 – 4 Tuning Sensitivity (avg.)	3	MHz/V	
3 – 5 Tuning Voltage (Vt)	0.5 4.5	Vdc	
3 – 6 Oscillation Frequency	145 150 155	MHz	
3 – 7 Phase Noise @10 KHz	-112 -105	dBc / Hz	Vcc = 5.0V, Vt = 2.5V
@100 KHz	-130 -120	dBc / Hz	
@125 KHz	-140 -130	dBc / Hz	
3 – 8 Pushing Figure	1000	KHz	Vcc = 5.0 ± 0.25 V
3 – 9 2'nd Harmonic	-10	dBc	Vcc = 5.0V, Vt = 2.5V
3 – 10 Load Impedance	50	Ω	
3 – 11 Operating Temperature	-30 +80	℃	

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

Figure 1 consists of two diagrams, (a) and (b), showing the dimensions of the KSV-10000 package. Diagram (a) is the bottom view, showing a square package with dimensions 12.7, 10.7, 8.2, 5.6, 3.1, and 0.0. It features four pins labeled P1, P2, P3, and P4. Diagram (b) is the top view, showing the package with dimensions 1.5, 9.8, 7.3, 4.7, and 2.2. It includes a central label with 'KSV - * V', '####', and 'KSE LOT'.

NO.	FUNCTIONS
P1	Tuning Voltage
P2	RF Out
P3	Supply Voltage
P4	N . C
All Other Pins are GND	

UNIT : mm
Tolerance : ± 0.2

MARKING			
KSV	Korea Sangshin VCO	####	Center Frequency
*	Supply Voltage	KSE	Manufacturer
V	Type	LOT	YYWW date

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