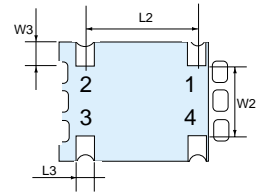
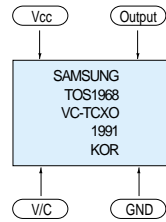
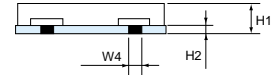
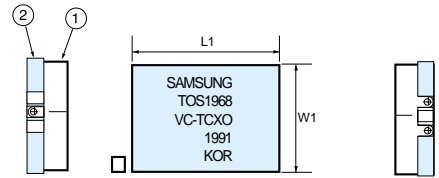


# VC-TCXO MODULE APPLICATION & ELECTRICAL CHARACTERISTIC



## FEATURES

- Available Frequency Range : 10MHz ~ 20MHz
- Operating Temperature Range : -30℃ to +75℃
- Storage Temperature Range : -40℃ to +85℃
- Current Drain : 2.0mA Max. (10kΩ//10pF±10% each)
- Load : 10kΩ//10pF 10% each



PIN CONNECTOR (TOP VIEW)

PIN CONNECTOR (BOTTOM VIEW)

LED NO	CONNECTION
1	Vcc
2	OUTPUT
3	GND
4	Vcont

NO	PART NAME	MATERIAL
1	CASE	NICKEL SILVER PLATE, TO 0.15
2	SUBSTRATE	CERAMIC

UNIT: mm

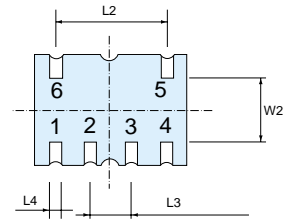
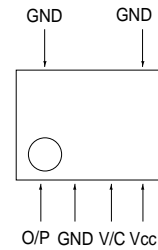
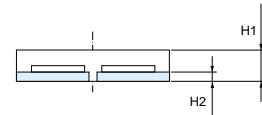
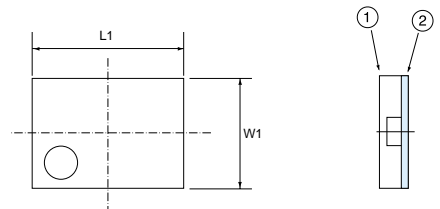
	L1	L2	L3	W1	W2	W3	H1	REMARK
0.12cc	9.0±0.3	5.08±0.3	1.4	7.0±0.3	4.6±0.3	1.3±0.2	2.0Max	
0.27cc	11.4±0.3	7.62±0.3	0.8	9.6±0.3	7.0±0.3	1.3±0.2	2.0Max	
0.07cc	7.0±0.3	5.08±0.3	1.4	5.0±0.3	4.6±0.3	1.3±0.2	2.0Max	One-Chip Type
0.77cc	7.0±0.3	5.08±0.3	1.4	7.0±0.3	4.6±0.3	1.3±0.2	2.0Max	Discrete Type

LED NO	CONNECTION
1	Vcc
2	OUTPUT
3,4,5	GND
4	Vcont

NO	PART NAME	MATERIAL
1	CASE	NICKEL SILVER PLATE, TO 0.15
2	SUBSTRATE	CERAMIC

UNIT: mm

	L1	L2	L3	L4	W1	W2	H1
0.25cc	11.4±0.3	7.62±0.3	2.54±0.3	0.8	9.6±0.3	7±0.3	2.25Max
0.27cc	11.4±0.3	7.62±0.3	2.54±0.3	0.8	9.6±0.3	7±0.3	2.6Max



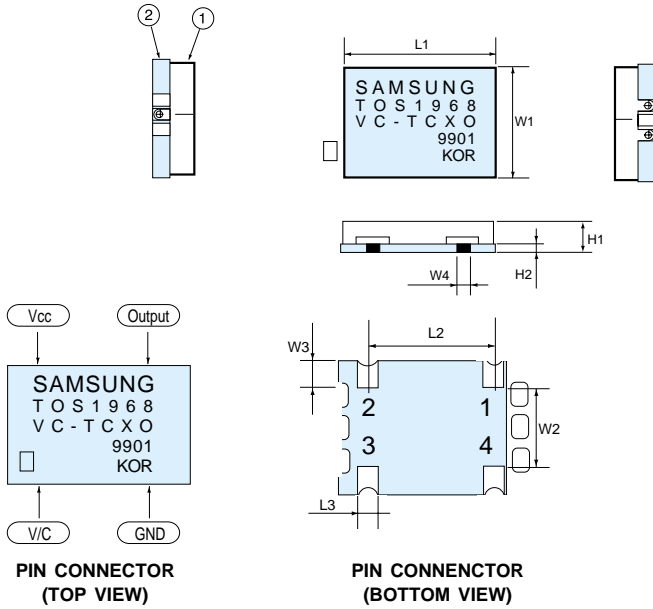
PIN CONNECTOR (TOP VIEW)

PIN CONNECTOR (BOTTOM VIEW)

## SPECIFICATIONS

APPLICATION	TYPE	SIZE	MODEL	Freq (MHz)	Supply (Vcc)	Frequency Stability			Frequency Tolerance		Control Voltage (V)	P/N (dBc/Hz) @100kHz offset	DIMENSION(mm)		
						vs. Temp.	vs. Voltage	vs. Load /vs.Aging	Before Reflow	After Reflow			LENGTH	WIDTH	HEIGHT (Max)
CDMA/PCS	DIGITAL	0.07cc	TOA1968DAI4KRA	19.68	3.0	±2.5	±0.3	±0.2/±1.0	±1.0	±1.0	1.5±1.0	-120	7.0±0.3	5.2±0.3	2.0
		0.07cc	TOA1968VAI4KRA		7.0±0.3								5.2±0.3	2.0	
		0.12cc	TOS1968VA14KRA		9.0±0.3								7.0±0.3	2.0	
		0.12cc	TOS1968VA14KRE		9.0±0.3								7.0±0.3	2.0	
		0.27cc	TOU1968VAI6KRA		11.4±0.3								9.6±0.3	2.6	
		0.27cc	TOU1968VBH6KRA		11.4±0.3								9.6±0.3	2.6	
		0.27cc	TOU1968VBH6KRT		11.4±0.3								9.6±0.3	2.6	
GSM	ANALOG	0.07cc	TOA1300VAI4KRA	13.00	3.0								7.0±0.3	5.2±0.3	2.0
		0.12cc	TOS1300VPM4DKA		9.0±0.3								7.0±0.3	2.0	
		0.27cc	TOU1300VPM4DKA		11.4±0.3								9.6±0.3	2.6	
		0.27cc	TOU1280VPI4HKB		11.4±0.3								9.6±0.3	2.6	
AMPS	ANALOG	0.5cc	TOC1485VBM4KRA	14.85	3.3								11.4±0.3	11.4±0.3	4.0

## VC-TCXO MODULE OUTLINE (4PIN)



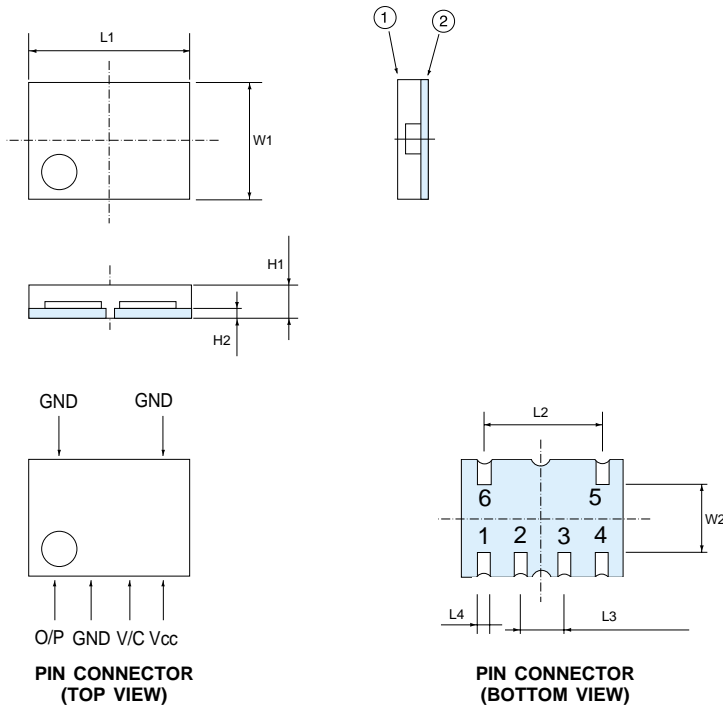
LED NO.	CONNECTION
1	Vcc
2	OUTPUT
3	GND
4	Vcont

NO.	PART NAME	MATERIAL
①	CASE	NICKEL SILVER PLATE, TO 0.15
②	SUBSTRATE	CERAMIC

UNIT: mm

	L1	L2	L3	W1	W2	W3	W4	H1	H2	Remark
0.12cc	9.0±0.3	5.08±0.3	1.4	7.0±0.3	4.6±0.3	1.3±0.2	0.55	2.0 Max.	0.50	
0.27cc	11.4±0.3	7.62±0.3	0.8	9.6±0.3	7.0±0.3	1.3±0.2	0.55	2.6 Max.	0.635	
0.07cc	7.0±0.3	5.08±0.3	1.4	5.0±0.3	4.6±0.3	1.3±0.2	0.55	2.0 Max.	0.40	One-Chip type
0.77cc	7.0±0.3	5.08±0.3	1.4	5.0±0.3	4.6±0.3	1.3±0.2		1.8 Max.		Discrete type

## VC-TCXO MODULE OUTLINE (6PIN)



LED NO.	CONNECTION
1	Vcc
2	OUTPUT
3, 5, 6	GND
4	Vcont

NO.	PART NAME	MATERIAL
①	CASE	NICKEL SILVER PLATE, TO 0.15
②	SUBSTRATE	CERAMIC

UNIT: mm

	L1	L2	L3	L4	W1	W2	H1	H2
0.25cc	11.4±0.3	7.62±0.3	2.54±0.3	0.8	9.6±0.3	7±0.3	2.25 Max.	0.5
0.27cc	11.4±0.3	7.62±0.3	2.54±0.3	0.8	9.6±0.3	7±0.3	2.6 Max.	0.635