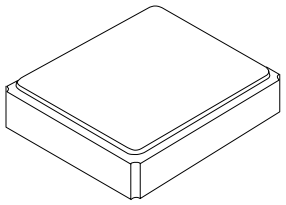
Preliminary

XVT9002

26 MHz VCTCXO

- ***Voltage Controlled Temperature Compensated Crystal Oscillator***
- ***Excellent Frequency Stability & Low Phase Noise***
- ***3.2 x 2.5 x 1.3 mm Surface-Mount Case***
- ***Complies with Directive 2002/95/EC (RoHS)***



SM3225-4 Case

Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Frequency	Fo			26.000000		MHz
Storage Temperature			-40		+85	°C
Operating Temperature Range			-30		+75	°C
Power Supply Voltage	Vcc		2.3	2.4	2.5	V
Output Voltage with Load 10 pF ||10 KΩ	Vout		0.8			V_{P-P}
Output Waveform			clipped sinewave			
Power Supply Current	Icc				1.2	mA
Control Voltage	Vcon			1.2±1.0		V
Control Voltage Input Impedance			100K			ohms
Frequency Tolerance, Vcontrol = 1.2 V, after Reflow			±2.5 ppm max @ 25 °C ±3 °C			
Frequency Stability versus:				±2.5		ppm
Temperature, -30 to 75 °C						
Supply Voltage, 2.3 to 2.5 V				±0.3		ppm
Load 10 pF||10 KΩ ±10%				±0.2		ppm
Control Voltage Frequency Range, 1.2 ±1.0 V			±9		±15	ppm
Start Up Time, 90% of final RF level in V_{P-P}					2.0	ms
Aging @ 25 °C				±1		ppm/year
Harmonics					-5.0	dBc
SSB Phase Noise @ 1 kHz Carrier Offset			-130 dBc/Hz maximum			
Stanard Shipping Quantity on 180 mm (7") Reel				1000		units
Lid Symbolization	9002 // YWWS					

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

Notes:

1. The design, manufacturing process, and specifications of this device are subject to change without notice.

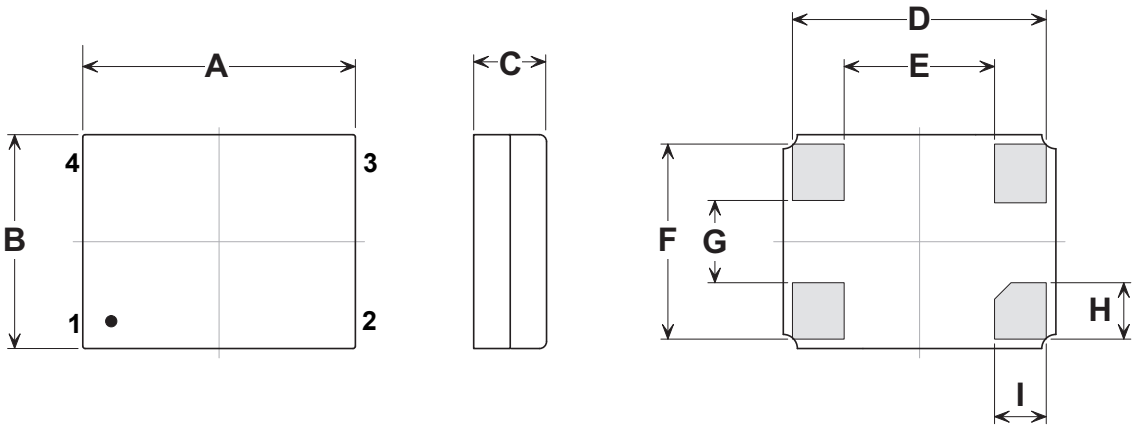
© 2009-2012 by RF Monolithics, Inc.

SM3225-4 Style Case

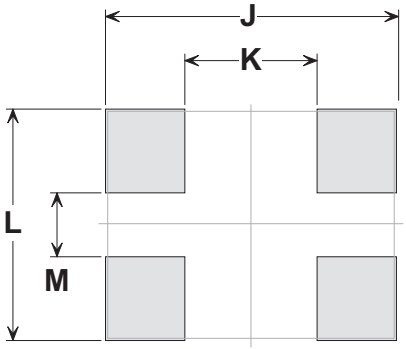
4-Terminal Surface-Mount Seam Weld Case

3.2 x 2.5 mm Nominal Footprint

Top **Side** **Bottom**



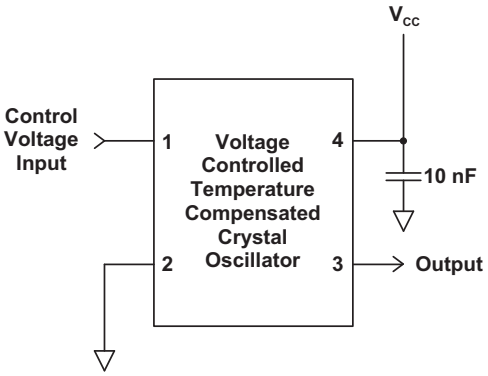
Typical PCB Land Pattern



Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	3.00	3.20	3.40	0.118	0.126	0.133
B	2.30	2.50	2.70	0.091	0.098	0.106
C	-	-	1.30	-	-	0.051
D	-	3.08	-	-	0.121	-
E	-	1.50	-	-	0.059	-
F	-	2.38	-	-	0.094	-
G	-	0.80	-	-	0.031	-
H	-	0.79	-	-	0.031	-
I	-	0.79	-	-	0.031	-
J	-	3.08	-	-	0.121	-
K	-	1.50	-	-	0.059	-
L	-	2.38	-	-	0.094	-
M	-	0.80	-	-	0.031	-

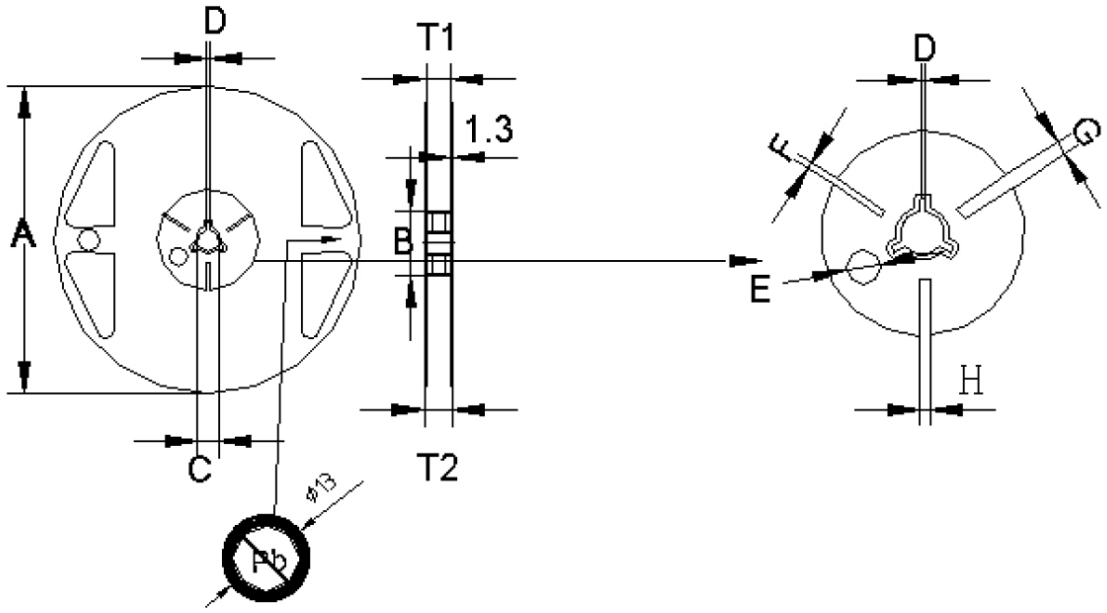
Pin	Connection
1	Vcontrol
2	GND/CASE GND
3	Output
4	Vcc

Application Circuit



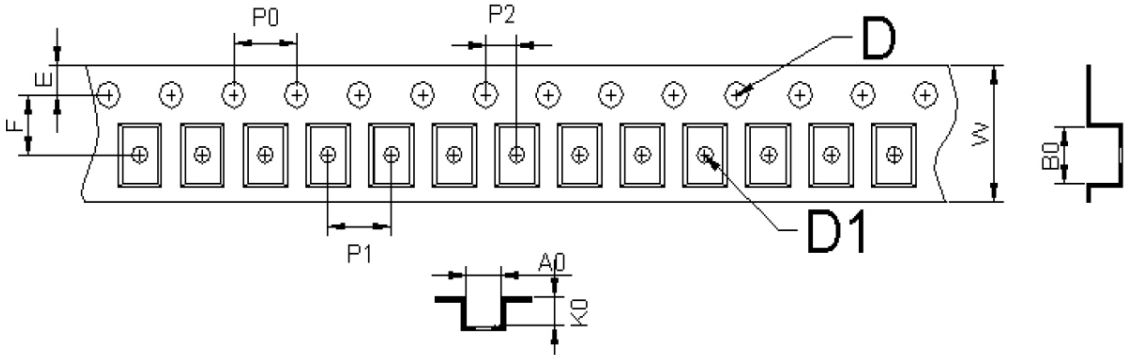
© 2009-2012 by RF Monolithics, Inc.

Reel Dimensions



mm	A	B	C	D	E	F	G	H	T1	T2	T3
Dimension	180	60	13.0	2.0	9.1	2.9	4.9	3.9	9.0	11.4	1.2
Tolerance	±1.0	+1.0/-0.0	±0.2	±0.5	±0.5	±0.5	±0.5	±0.5	±0.3	±1.0	±0.1

Tape Dimensions



mm	A0	B0	W	F	E	P0	P1	P2	D1	D	K0	t
Dimension	2.80	3.71	8.00	3.50	1.75	4.00	4.00	2.00	1.50	1.00	1.75	0.25
Tolerance	±0.10	±0.10	+0.30/-0.10	±0.05	±0.10	±0.10	±0.10	±0.05	+0.10/-0.00	+0.25/-0.00	±0.10	±0.02

© 2009-2012 by RF Monolithics, Inc.