

## Crystal Clock Oscillator

**Part Number:** TCO-71 IJTC  
**Applications:** Computers & Peripherals  
Consumer Application  
Instrumentation  
LAN-WAN  
Telecom (wired)

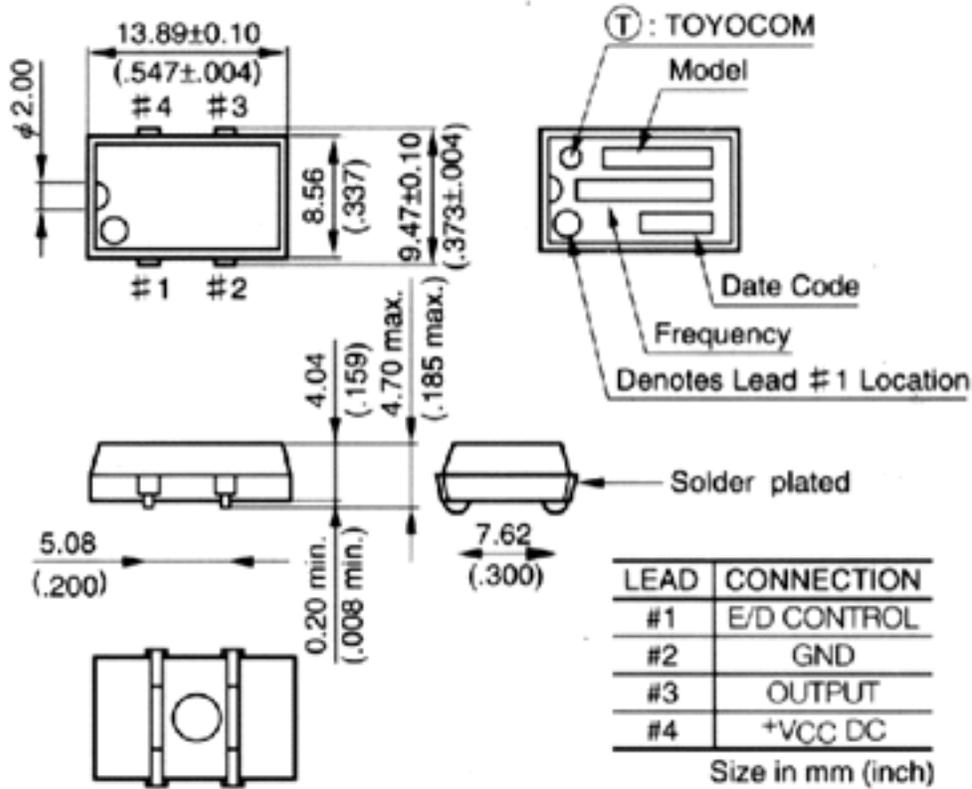


**Package:** SMO-J  
**Package Dimensions:** 13.89x8.56x4.7mm

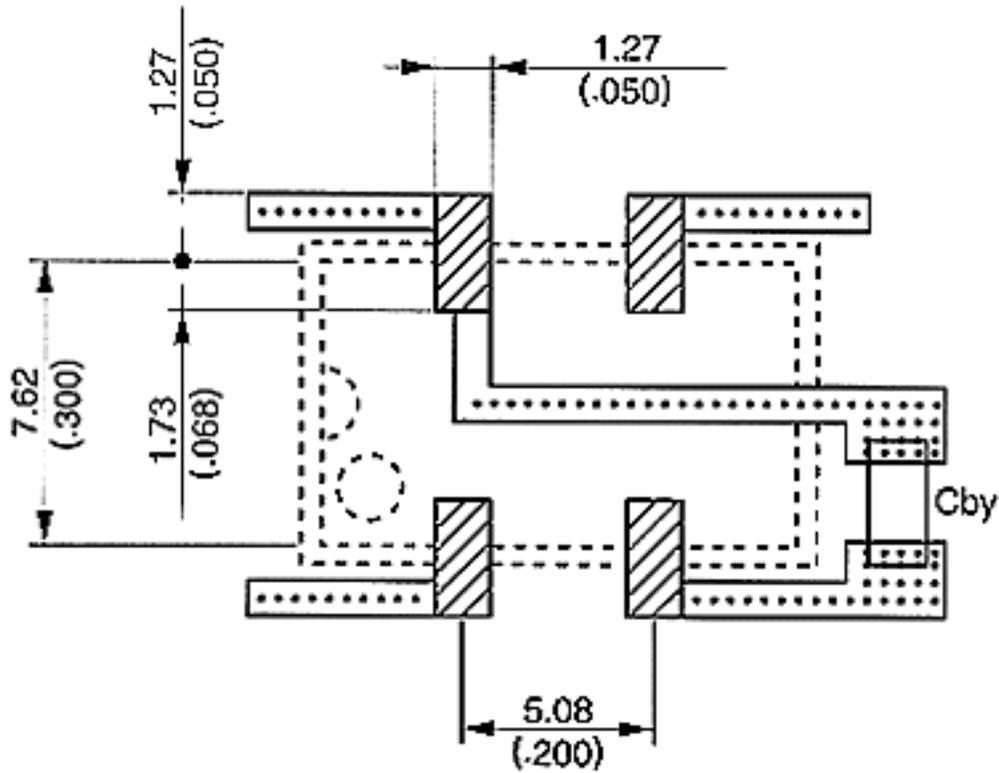
### Product Specifications

<b>Frequency Range:</b>	1.5~70 MHz	<b>Frequency Stability:</b>	±100ppm
<b>Operating Temperature:</b>	0~+70°C	<b>Supply Voltage:</b>	5.0V ±0.5V
<b>Current Drain:</b>	[I <sub>cc</sub> Max] See NOTE below	<b>Output Voltage:</b>	V <sub>oh</sub> =0.4V / V <sub>ol</sub> =0.4V
<b>Symetry:</b>	45:55 (at 50%V <sub>cc</sub> )	<b>Rise/Fall Time:</b>	12ns Max (1.5~26MHz), 10ns Max (26+~50MHz), 6ns Max (50+~70Mhz)
<b>Load Capacitance:</b>	50pF Max (1.5~26MHz), 30pF Max (26+~50MHz), 15pF Max (50+~70MHz)	<b>Start-Up Time:</b>	4ms Max (1.5~26MHz), 10ms Max (26+~70MHz)
<b>NOTE:</b>	I <sub>cc</sub> Max] 10mA (1.5~10MHz), 15mA (10+~26MHz), 35mA (26+~50MHz), 50mA (50+~70MHz)		

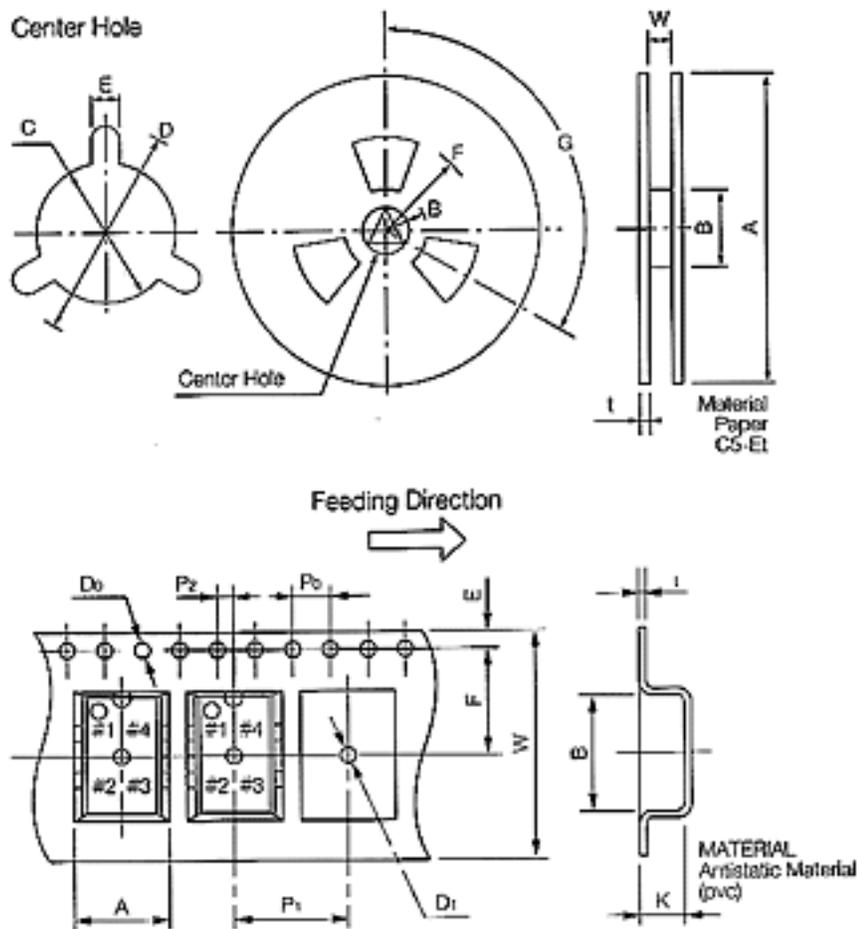
### TCO-71 IJTC | Outline Drawing



### TCO-71 IJTC | Foot Pattern



### TCO-71 IJTC | Tape and Reel



#### Tape dimensions

Package	Unit	A	B	D <sub>3</sub>	D <sub>1</sub>	E	F
SMO-J	(mm)	9.85	14.3	∅ 1.5	∅ 2.0	1.75	11.5
	(inch)	.388	.563	∅ .059	∅ .079	.069	.453
SMO-N	(mm)	5.75	7.65	∅ 1.5	∅ 2.0	1.75	7.5
	(inch)	.226	.301	∅ .059	∅ .079	.069	.295

#### Tape dimensions

Package	Unit	K	P <sub>0</sub>	P <sub>1</sub>	P <sub>2</sub>	t	W
SMO-J	(mm)	4.7	4.0	12.0	2.0	0.3	24.0
	(inch)	.185	.158	.472	.079	.012	.945
SMO-N	(mm)	2.1	4.0	8.0	2.0	0.3	16.0
	(inch)	.083	.157	.315	.079	.012	.630

#### Reel dimensions

Package	Unit	A	B	C	D	E	F
SMO-J	(mm)	∅ 330	∅ 80	∅ 13	∅ 21	3.C	∅ 190
	(inch)	∅ 13.0	∅ 3.15	∅ .512	∅ .827	.118	∅ 7.48
...	(mm)	∅ 255	∅ 80	∅ 13	∅ 25	2.C	∅ 215

SMD-N	(inch)	φ 10.0	φ 3.15	φ .512	φ .984	.079	φ 8.46
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**Reel dimensions**

Package	Unit	G	t	W
SMD-J	(mm)	120*	2.0	25.4
	(inch)	120*	.079	1.00
SMD-N	(mm)	120*	2.0	17.5
	(inch)	120*	.079	.689

[ All sizes in mm ]

For more information on this or any other product, please call 847.593.8780 or your nearest TOYOCOM representative.