

CERAMIC LVDS MINIATURE SMD OSCILLATOR (5.0 x 3.2 x 1.3mm)

FEATURES:

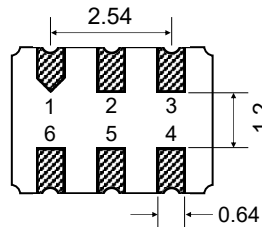
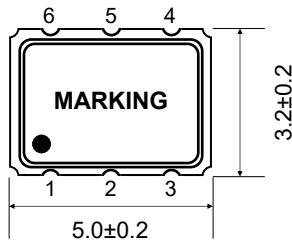
- HIGH FREQUENCY
- ULTRA LOW PHASE JITTER PERFORMANCE
- EN/DISABLE PIN AVAILABLE



■ SPECIFICATION

FREQUENCY RANGE	1.8V: 13.5MHz ~ 212.5MHz	2.5V: 12MHz ~ 312.5MHz	3.3V: 12MHz ~ 800MHz
FREQUENCY STABILITY	±15ppm ~ ±100ppm		
OPERATING TEMPERATURE RANGE	STD: 0°C ~ 70°C, Option: -40°C ~ 85°C (See P/N guide for other options)		
STORAGE TEMPERATURE RANGE	-55°C ~ 125°C		
SUPPLY VOLTAGE ± 10%	1.8V	2.5V	3.3V
SUPPLY CURRENT	60mA max.	80mA max.	100mA max.
LVDS OUTPUT	LOAD	100Ω (Output - Complementary Output)	
	LEVEL LOGIC '1' (V_{OH})	1.4V _{DC} typ. 1.6V _{DC} max.	
	LEVEL LOGIC '0' (V_{OL})	1.1V _{DC} typ. 0.9V _{DC} min.	
	DIFFERENTIAL OUTPUT VOLTAGE	0.247V ~ 0.454V, 0.350V typ.	
	OFFSET VOLTAGE	1.125V ~ 1.375V, 1.25V typ.	
	SYMMETRY(DUTY CYCLE)	STD: 40% / 60%, Option: 45% / 55%	
	RISE AND FALL TIME (Tr/Tf)	250pS typ. 1nS max. @ 20% / 80%	
	START-UP TIME	5mS typ. 10mS max.	
STAND-BY VOLTAGE	ENABLE (V_{IH})	0.7 x V _{DD} ≤ V _{IH} ≤ V _{DD} or N/C	
	DISABLE (V_{IL})	V _{IL} ≤ 0.3 x V _{DD}	
STAND-BY CURRENT (Pin#1=V_{IL})	10μA max.		
ENABLE DELAY TIME	2mS max.		
DISABLE DELAY TIME	200nS max.		
AGING @ +25°C ±3°C	±3.0ppm / 1 st year max		
PHASE JITTER (12kHz ~ 20MHz)	1.0pS max.		

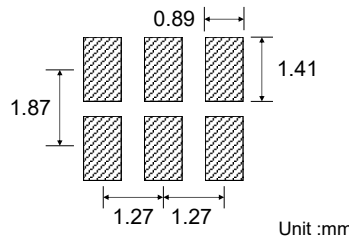
■ PACKAGE DIMENSIONS



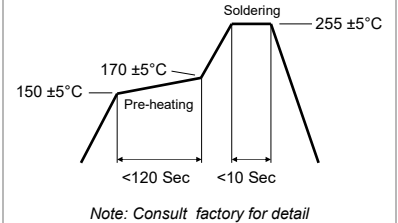
Unit : mm

Pin Configuration	
1	En/Dis or N.C.
2	N.C.
3	GND
4	Output
5	C - output
6	V _{DD}

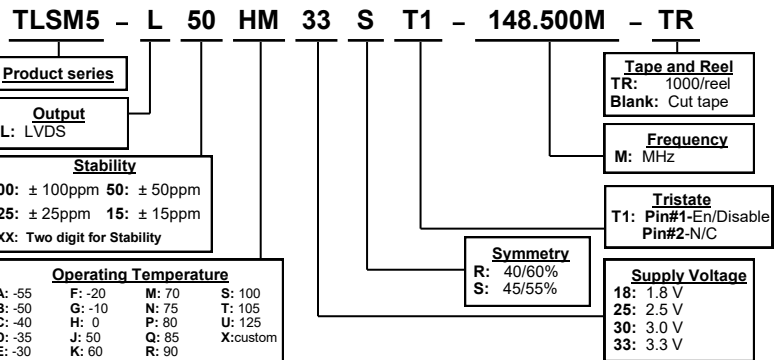
■ SOLDER PATTERN



■ REFLOW PROFILE



■ PART NUMBERING GUIDE



Transko Electronics, Inc reserves the right to make changes to the product (s), service (s), and specification (s) described herein without notice. See "Terms of Sale" for details on our website.