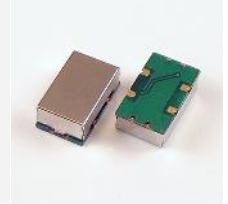


ULTRA LOW NOISE HCMOS OSCILLATOR (14.3 x 8.7 x 5.5mm)

FEATURES:

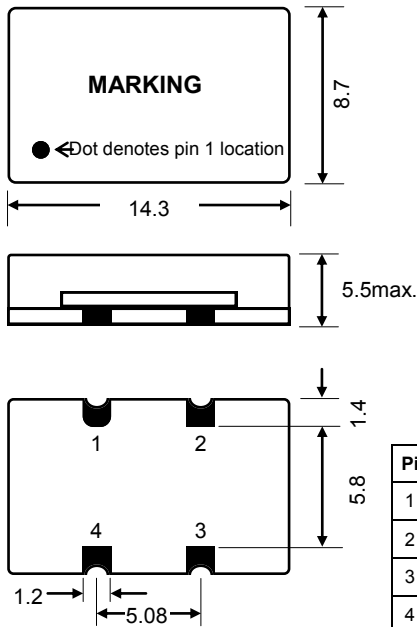
- Designed specifically for HD Audio application
- Suitable for SMD reflow
- En/disable on pin# 1



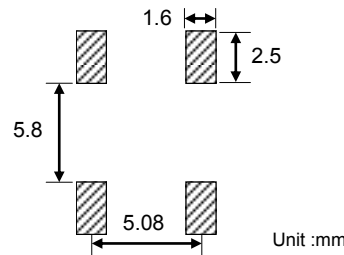
■ SPECIFICATION

FREQUENCY RANGE		STD: 24.576MHz, 22.5792MHz, 49.152MHz, 45.1584MHz	
FREQUENCY STABILITY		±25ppm max.	
OPERATING TEMPERATURE RANGE		0°C ~ 70°C	
STORAGE TEMPERATURE RANGE		-55°C ~ 125°C	
SUPPLY VOLTAGE ± 10%		3.3V _{DC}	
SUPPLY CURRENT		15mA typ. 25mA max.	
OUTPUT	LOGIC FAMILY	HCMOS	
	LOAD	15pF	
	SYMMETRY(DUTY CYCLE)	45% / 55%	
	RISE AND FALL TIME (Tr/Tf)	3.0nS max.	
	START-UP TIME	2.0mS 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}	
AGING @ +25°C ±3°C		±3.0ppm / 1 st year max.	
PHASE JITTER RMS		1pS max.	
PHASE NOISE (12kHz ~ 20MHz)		-100dBc/Hz @ 10Hz typ. -95dBc/Hz @ 10Hz max.	-125dBc/Hz @ 100Hz typ.
		-145dBc/Hz @ 1kHz typ.	-160dBc/Hz @ 10kHz typ.
		-168dBc/Hz @ 100kHz typ. -165dBc/Hz @ 100kHz max.	

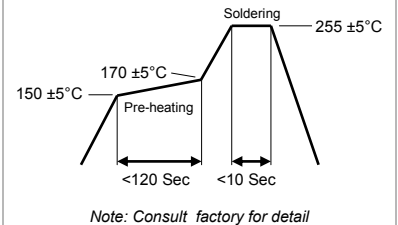
■ PACKAGE DIMENSIONS



■ SOLDER PATTERN



■ REFLOW PROFILE



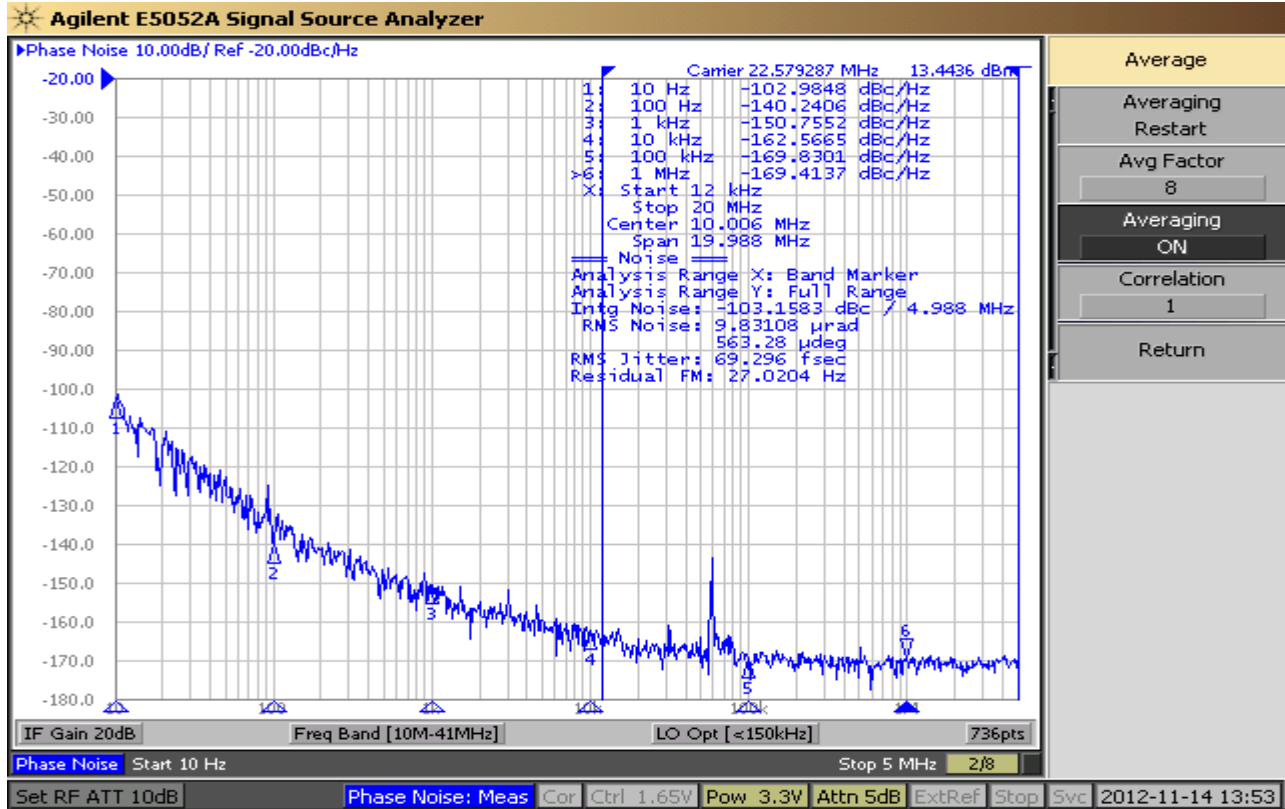
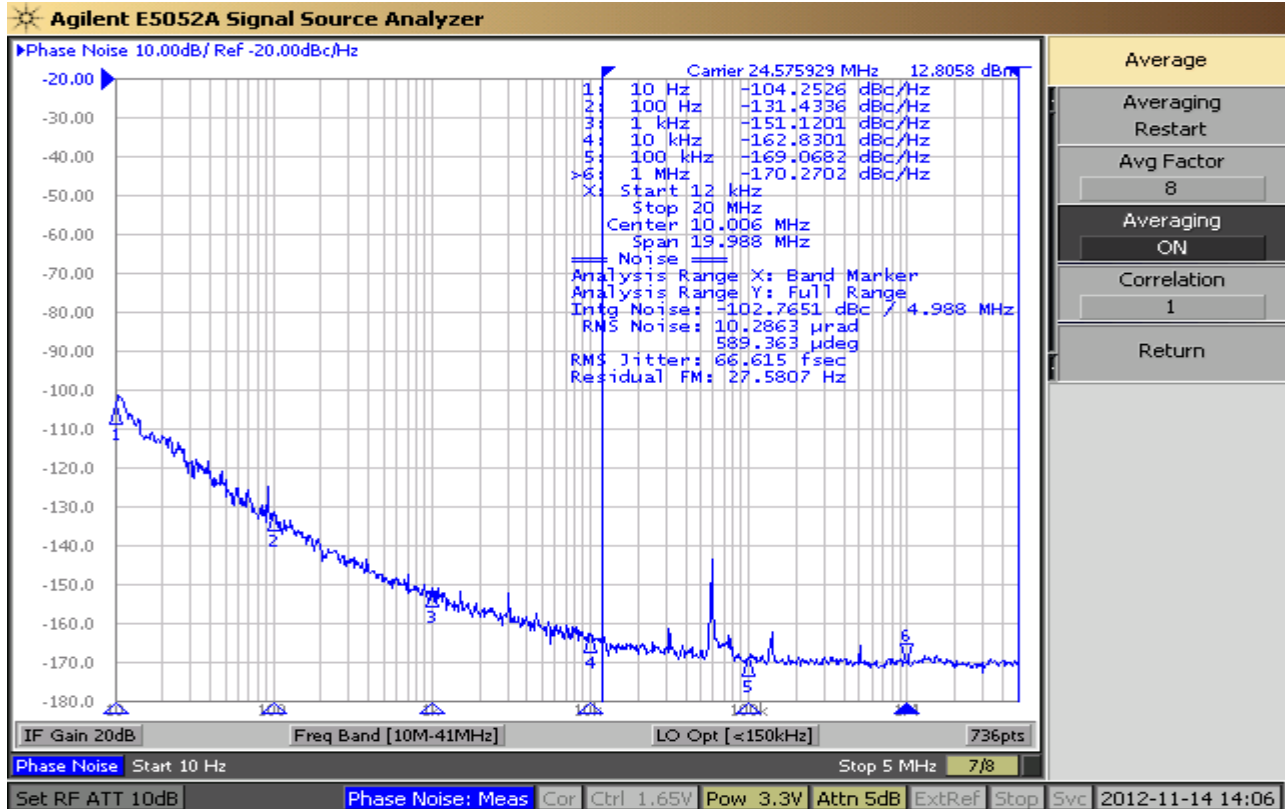
■ PART NUMBERING GUIDE

Part numbers:

TPS-1236-24.576M
TPS-1236-22.5792M
TPS-1236-49.152M
TPS-1236-45.1584M

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.

■ PHASE NOISE DATA (TYPICAL)



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.