

FR4 PCB BASED SMD HCMOS VCXO (14.3 x 8.7 x 5.5mm)

FEATURES:

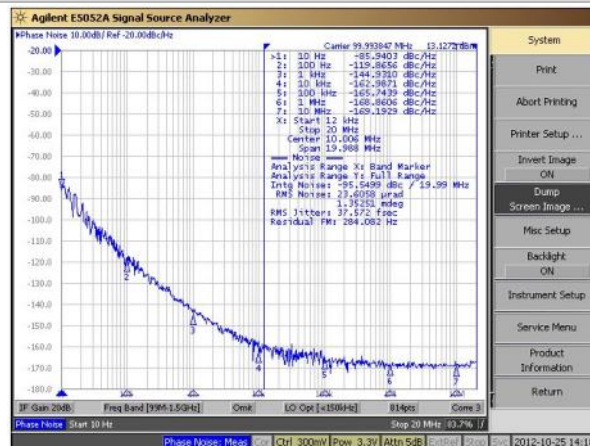
- ULTRA LOW NOISE AND JITTER PERFORMANCE
- HCMOS OUTPUT WITH LOW CURRENT
- SUITABLE FOR REFLOW



■ SPECIFICATION

PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE
FREQUENCY RANGE		1		800.000	MHz	
OPERATING TEMPERATURE RANGE		-40		85	°C	See P/N guide for other options
STORAGE TEMPERATURE RANGE		-55		105	°C	
SUPPLY VOLTAGE ±5%		3.3		5.0	V	See P/N guide for other options
SUPPLY CURRENT			15	100	mA	
OUTPUT	LOGIC FAMILY	HCMOS				
	LOAD	15pF				
	LEVEL LOGIC '1' (V _{OH})	0.9 x V _{DD}			V	
	LEVEL LOGIC '0' (V _{OL})			0.1 x V _{DD}	V	
	SYMMETRY (DUTY CYCLE)	45		55	%	See P/N guide for other options
	RISE AND FALL TIME (Tr/Tf)			3	nS	@ 10% ~ 90% V _{DD}
START-UP TIME				10	mS	
FREQUENCY DEVIATION		±20			ppm	@ APR (Inclusive of tolerance@25°C, stability over temp, voltage chance, load change and aging)
CONTROL VOLTAGE	3.3V	0		3.3	V	
	5.0V	0		5	V	
LINEARITY				10	%	
MODULATION BANDWIDTH		10			kHz	@ -3dB
INPUT IMPEDANCE			50		kΩ	
AGING	1st YEAR			±2	ppm	@ 25°C + 3°C
	5 YEARS			±5	ppm	@ 25°C + 3°C
	10 YEARS			±7	ppm	@ 25°C + 3°C
PHASE JITTER			0.12		pS	@ 12kHz ~ 80MHz offset
PHASE NOISE FLOOR			-165		dBc/Hz	@ 100MHz
PHASE NOISE	@ 1kHz		-145		dBc/Hz	@ 100MHz with ±20ppm APR
	@ 10kHz		-163		dBc/Hz	
	@ 100kHz		-165		dBc/Hz	
	@ 1MHz		-168		dBc/Hz	

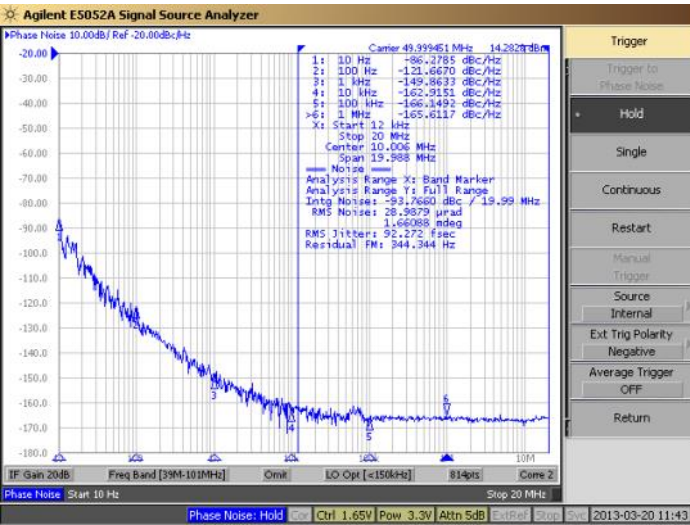
■ PHASE NOISE (TYPICAL) @ 100MHz (0°C to 70°C)



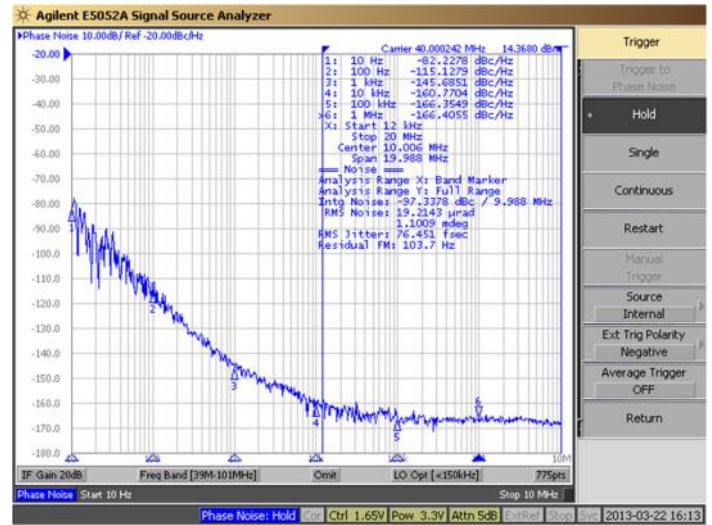
Consult factory for typical phase noise value for other operating temperature range.

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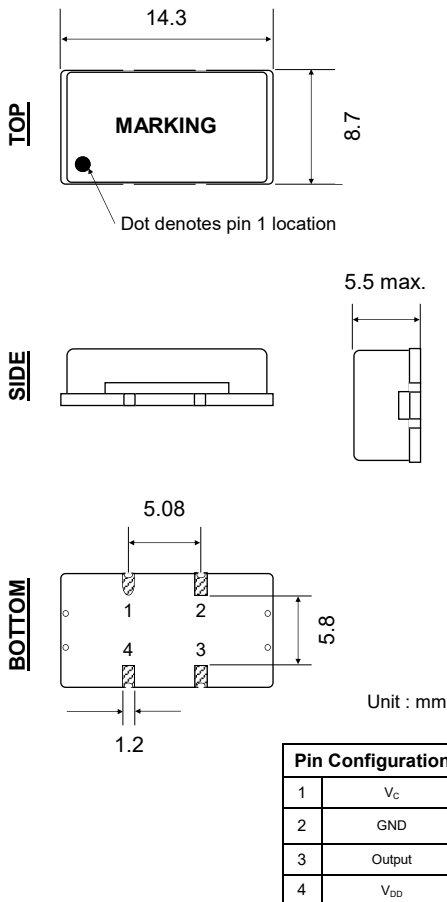
■ PHASE NOISE (TYPICAL) @ 50MHz (0°C to 70°C)



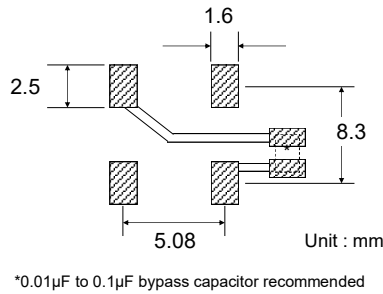
■ PHASE NOISE (TYPICAL) @ 40MHz (0°C to 70°C)



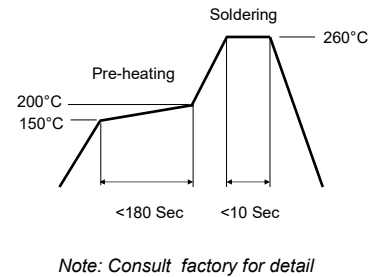
■ PACKAGE DIMENSIONS



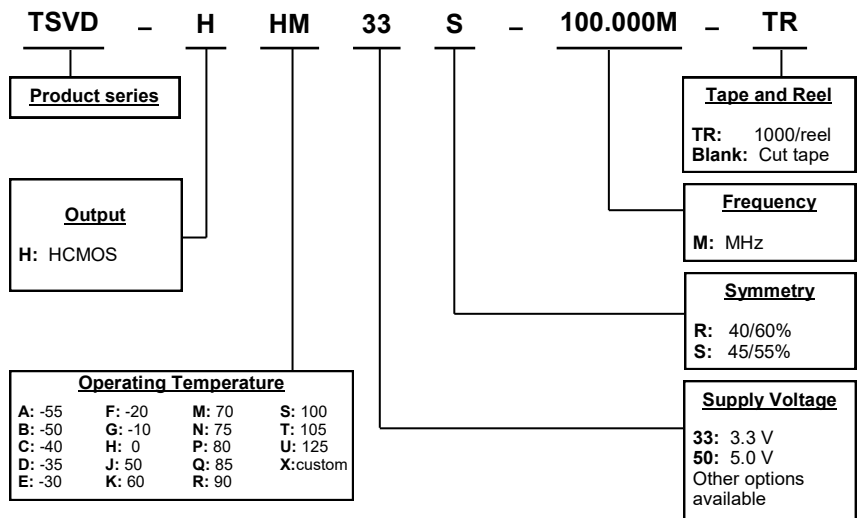
■ SOLDER PATTERN



■ REFLOW PROFILE



■ PART NUMBERING GUIDE



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