

TCXO/VCTCXO FR4 BASE SMD (14.3 x 8.7 mm)

FEATURES:

- WIDE FREQUENCY RANGES
- TIGHT STABILITY AVAILABLE
- STANDARD PACKAGE

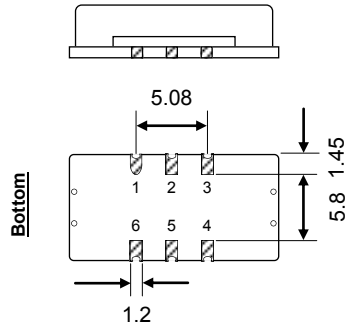
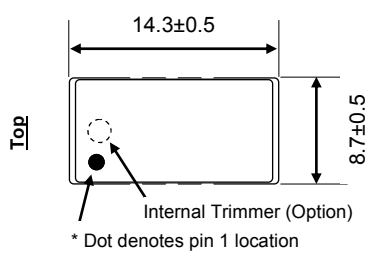


■ SPECIFICATION

PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE	
FREQUENCY RANGE	CMOS / TTL	1K		800M	Hz		
	LVDS / PECL	0.75		800	MHz		
	CSW / SW	10		50	MHz		
FREQ. STABILITY	vs. TEMPERATURE	±0.5		±5.0	ppm	See P/N guide for other options	
	vs. LOAD ± 10%	CMOS / TTL		±0.2	ppm		
		LVDS / PECL		±0.2	ppm		
		CSW / SW		±0.2	ppm		
	vs. SUPPLY VOLTAGE ± 5%	CMOS / TTL		±0.3	ppm		
LVDS / PECL			±0.3	ppm			
vs. AGING	CSW / SW		±0.2	ppm			
OPERATING TEMPERATURE RANGE		-40		85	°C	See P/N guide for other options	
STORAGE TEMPERATURE RANGE		-55		125	°C		
SUPPLY VOLTAGE ±5%		3.3		5.0	V	See P/N guide for other options	
SUPPLY CURRENT	CMOS / TTL			50	mA		
	LVDS / PECL			100	mA		
	CSW			10	mA		
	SW			30	mA		
OUTPUT	LOGIC FAMILY	CMOS / TTL / LVDS / LVPECL / CSW / SW					
	LOAD	CMOS / TTL	15pF / 10TTL				
		CSW / SW	10kΩ/10pF / 50Ω				
	LEVEL	CMOS (V _{OH})	0.9 x V _{DD}		0.1 x V _{DD}	V	
		CMOS (V _{OL})				V	
		TTL (V _{OH})	2.4			V	
		TTL (V _{OL})			0.4	V	
		LVDS (V _{OH})		1.43		V	
		LVDS (V _{OL})		1.10		V	
		PECL (V _{OH})	V _{DD} -1.025			V	
		PECL (V _{OL})			V _{DD} -1.62	V	
		CSW (3.3V)	0.8			V _{P-P}	
		CSW (5.0V)	1.0			V _{P-P}	
	SW (3.3V)		0		dBm		
	SW (5.0V)		10		dBm		
DIFFERENTIAL OUTPUT			330		mV	LVDS only	
OFFSET VOLTAGE			1.2		V	LVDS only	
SYMMETRY (DUTY CYCLE)	CMOS / TTL	40		60	%		
	LVDS / PECL	45		55	%		
RISE AND FALL TIME (Tr/Tf)	CMOS / TTL			10	nS		
	LVDS / PECL			1.0	nS		
FREQUENCY DEVIATION		±5		±10	ppm		
CONTROL VOLTAGE	3.3V	0.15		3.15	V		
	5.0V	0.5		4.5	V		
FREQUENCY ADJUSTMENT (OPTION)		±3.0			ppm	By internal trimmer	
PHASE NOISE	10Hz		-80		dBc/Hz	@ 20.0MHz offset	
	100Hz		-120		dBc/Hz		
	1kHz		-135		dBc/Hz		
	10kHz		-140		dBc/Hz		
	100kHz		-145		dBc/Hz		

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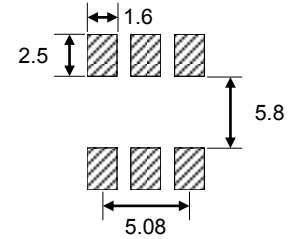
■ PACKAGE DIMENSIONS



Unit : mm

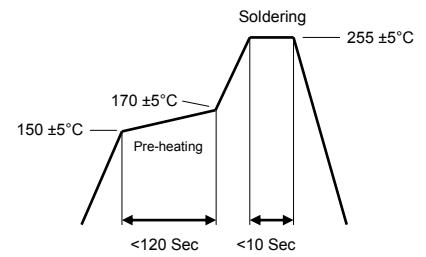
Pin Connections		
	CMOS / TTL / CSW / SW	LVDS / PECL
1	NC or VC	En/Dis or VC
2	NC or En/Dis (when Pin 1 is VC)	
3	GND	
4	Output	
5	NC	C. Output
6	V _{DD}	

■ SOLDER PATTERN



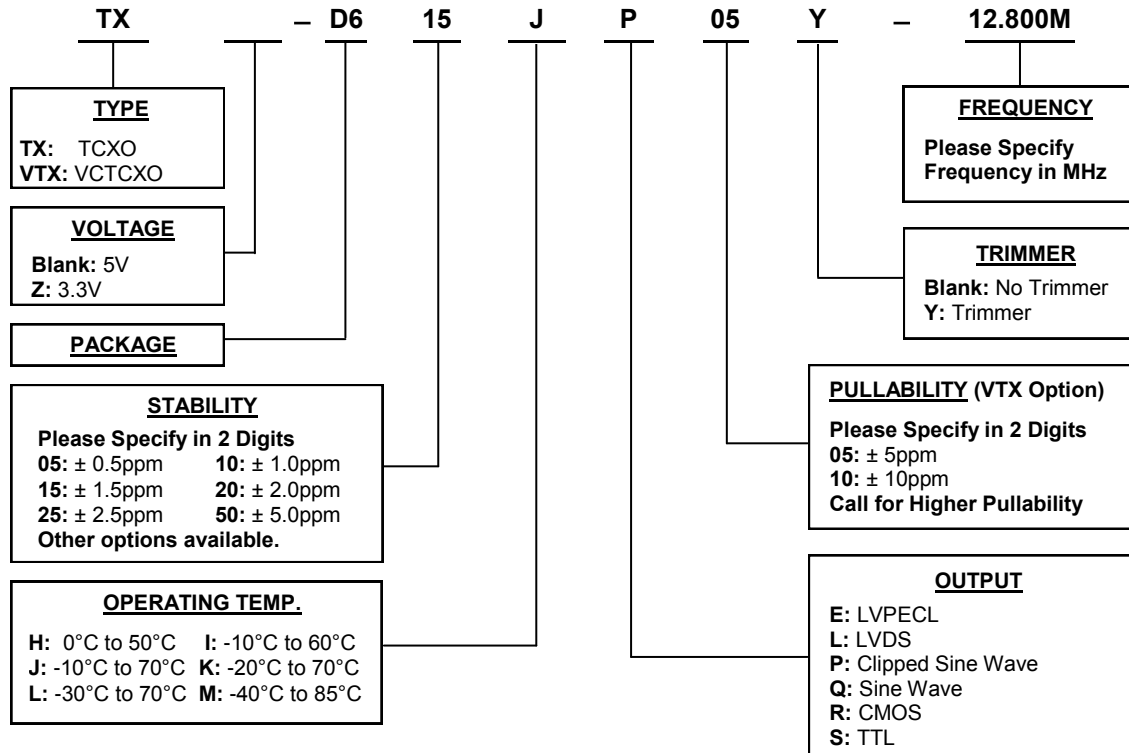
Unit : mm

■ REFLOW PROFILE



Note: Consult factory for detail

■ PART NUMBERING GUIDE



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