IMPACT, LLC

Surface Mount Oscillator

TC25R

18.4 x 11.8mm (4) Lead HCMOS/TTL VCTCXO

Lead Free

EU RoHS EU RoHS Leaf Compliant

Reach Compliant

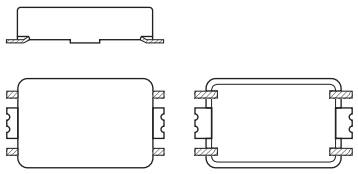
China RoHS Compliant

Conflict Minerals Free

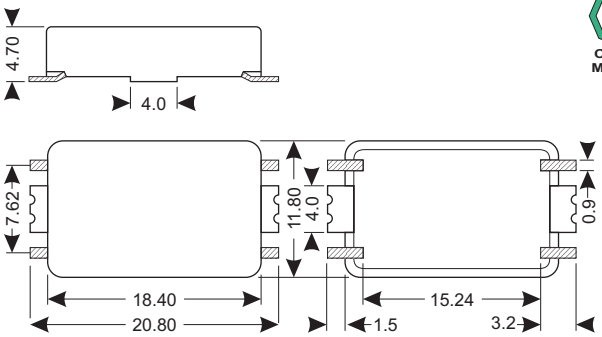
Specifications

Package		TC25R	
Frequency Range (fo)		1.000~155.520MHz	
Temp. Range	Operating (TOPR)	0°C ~ +50ºC	
	Storage (TSTG)	-40°C ~ +85ºC	
Supply Voltage		5.0VDC±5% (std.)	3.3VDC±5% (opt.)
Aging/Year (fa)		±1.0ppm Max	
Internal Trim		±3ppm Min	
Input Current (Iop)		3mA Max	
Frequency Stability		±5.0ppm	
Symmetry/Duty		40/60 (std.)	
Output	Load	15pF **HCMOS**	2**TTL** Load Max
	Voltage (VOL)	0.5VDC Max	0.4VDC Max
	Voltage (VOH)	VDD-0.5 Min	2.4VDC Min
Control Voltage		2.5VDC ±2.0VDC or 1.65VDC ±1.65VDC	
Frequency Deviation		±5ppm Min over Ctrl. Voltage	
Rise (TR) & Fall (TF) Time		10nS Max	

Actual Size



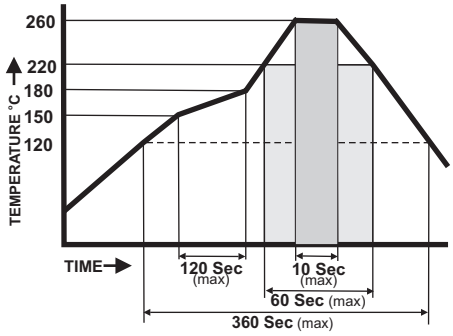
Dimensions (mm)



Connections

Pin 1	VC	**Pin 3**	Output
Pin 2	Case GND	**Pin 4**	Vcc

260° C REFLOW PROFILE



Standard Options

Stability

T1	±5.0ppm
T2	±2.0ppm
T3	±1.0ppm
TC	Cust. Stability

Temp Range

R1	-0°C ~ +50°C
R2	-10°C ~ +60°C
R3	-10°C ~ +70°C
R4	-20°C ~ +70°C
R5	-30°C ~ +80°C
R6	-40°C ~ +85°C
R7	-5°C ~ +55°C
RC	Custom Temp.

Duty Cycle

Q1	45/55 Duty
Q2	47.5/52.5 Duty
QC	Cust. Duty Cycle

Voltage

B1	3.3 Volt

TC25R - XXX.XXX M - TX RX BX QX

PACKAGE | FREQUENCY | BAND | FREQ. STAB TEMP. RANGE | TEMP RANGE | SUPPLY VOLTAGE | DUTY CYCLE

ISO 9001:2015 Certified

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