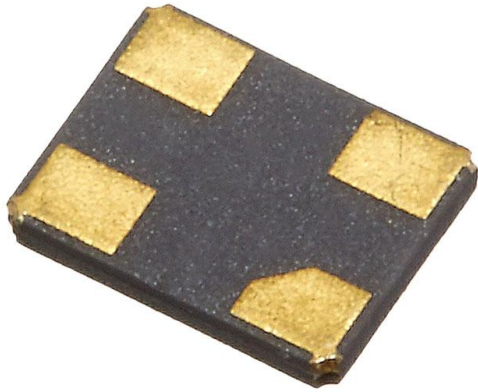


RTV-2016AF3NY-S-19.200-TR Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	RTV-2016AF3NY-S-19.200-TR-DG
Manufacturer	Raltron Electronics
Manufacturer Product Number	RTV-2016AF3NY-S-19.200-TR
Description	XTAL OSC VCTCXO 19.2MHZ 1.8V CLP
Detailed Description	19.2 MHz VCTCXO Clipped Sine Wave Oscillator 1.8 V 4-SMD, No Lead



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

RTV-2016AF3NY-S-19.200-TR

Series:

RTV-2016

Base Resonator:

Crystal

Frequency:

19.2 MHz

Output:

Clipped Sine Wave

Frequency Stability:

±500ppb

Operating Temperature:

-30°C ~ 85°C

Current - Supply (Max):

2mA

Mounting Type:

Surface Mount

Size / Dimension:

0.079" L x 0.063" W (2.00mm x 1.60mm)

Current - Supply (Disable) (Max):

-

Manufacturer:

Raltron Electronics

Product Status:

Active

Type:

VCTCXO

Function:

-

Voltage - Supply:

1.8V

Absolute Pull Range (APR):

-

Spread Spectrum Bandwidth:

-

Ratings:

-

Package / Case:

4-SMD, No Lead

Height - Seated (Max):

0.037" (0.95mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.39.0001

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



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TCXO

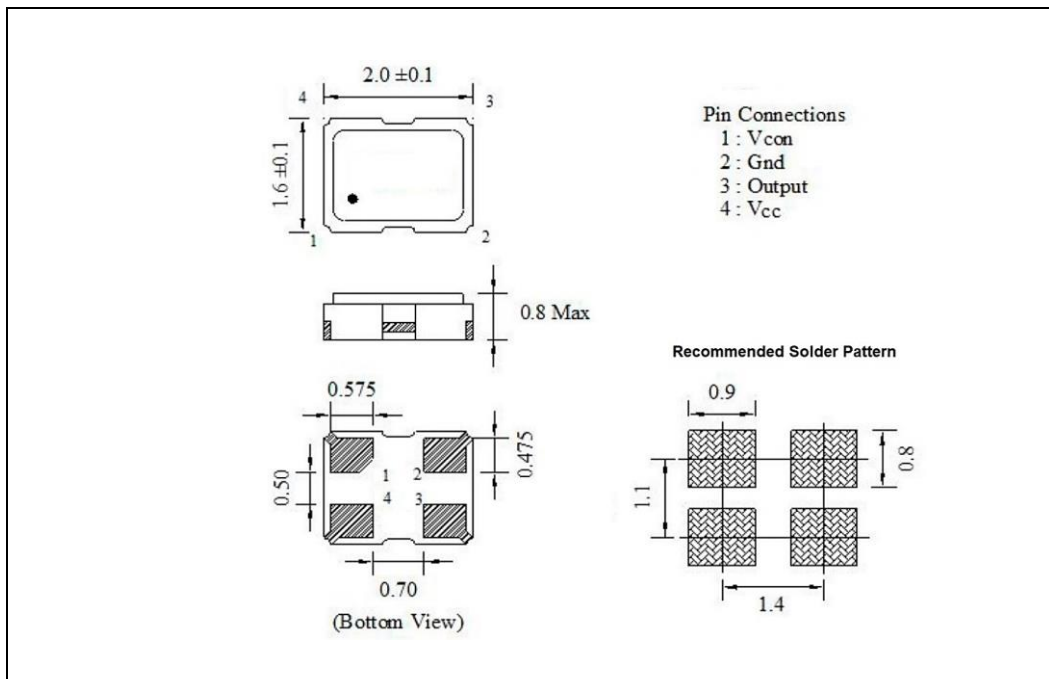
RTV-2016AF3NY-S-19.200-TR

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ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	f_0	$V_{CC} \pm 5\%$	19.200	MHz
Supply voltage, nom.	V_{CC}	$V_{CC} \pm 5\%$	1.7-3.46	VDC
Supply current, max	I_S	$V_{CC} \pm 5\%$	1.5	mA
Operating temperature	T_a		-30 ~ +85	°C
Storage temperature	$T(stg)$	Absolute max	-40 ~ +90	°C
Frequency Stability				
vs. Temperature, Max	$\Delta f/f_0(T_a)$	Reference to +25°±2°C (-30 TO 85°C)	±0.5	ppm
vs. Supply Voltage	$\Delta f/f_V$	$V_{CC} \pm 5\%$	±0.2	ppm
vs. Load	$\Delta f/f_L$	Load ±10%	±0.1	ppm
vs. Aging Max	$\Delta f/f_0(\text{year})$	Per Year at +25°C ±2°C	±1.0	ppm
Initial Frequency Calibration, Max	f_c	Measured at 25°C, Reference to f_0	±2.0	ppm
Output Level, Clipped Sine Wave	-	10K Ohms // 10 pF ±10%	0.2	V_{P-P}
Voltage Control Range	V_C	$V_C = 0.3V_{dc}$ to 1.5Vdc	±8 to ±15	ppm
Harmonics			-5	dBc
Start up time, Max	t_s	$V_{OUT} \geq 90\% V_{P-P}$	2.0	ms

MECHANICAL SPECIFICATION





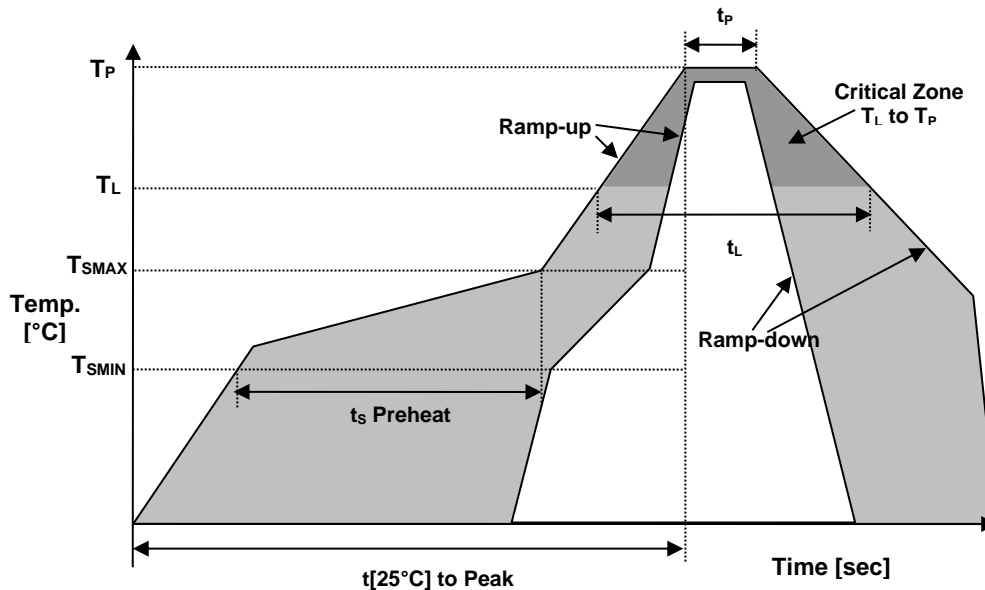
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REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	T_{SMIN}	150°C
Temperature Max Preheat	T_{SMAX}	200°C
Time (T_{SMIN} to T_{SMAX})	t_s	60-180 sec.
Temperature	T_L	217°C
Peak Temperature	T_P	260°C
Ramp-up rate	R_{UP}	3°C/sec max.
Ramp-down rate	R_{DOWN}	6°C/sec max.
Time within 5°C of Peak Temperature	t_p	10 sec.
Time $t[25°C]$ to Peak Temperature	$t[25°C]$ to Peak	480 sec.
Time	t_L	60-150 sec.

ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
REACH-SVHC	Compliant
RoHS	Compliant
TERMINATION FINISH	Au



**TCXO****RTV-2016AF3NY-S-19.200-TR**

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MARKING

Rx19.2
•AF8yw

x – Internal Production ID code
y – Year code
w – Week code

YEAR CODE	
Year	Code
2019	9
2020	0
2021	1
2022	2
2023	3
2024	4
2025	5
2026	6
2027	7
2029	8
2029	9

ALPHA WEEK CODE TABLE					
Week	Code	Week	Code	Week	Code
1	a	19	s	37	K
2	b	20	t	38	L
3	c	21	u	39	M
4	d	22	v	40	N
5	e	23	w	41	O
6	f	24	x	42	P
7	g	25	y	43	Q
8	h	26	z	44	R
9	i	27	A	45	S
10	j	28	B	46	T
11	k	29	C	47	U
12	l	30	D	48	V
13	m	31	E	49	W
14	n	32	F	50	X
15	o	33	G	51	Y
16	p	34	H	52	Z
17	q	35	I		
18	r	36	J		

APPROVALS

RALTRON	
DRAWN BY:	CP, November 04, 2020
APPROVED BY:	Jl, November 04, 2020
REVISION:	A, Initial Release B, Updated mechanical specifications KJ 2/10/21

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