



The following section contains information about OFC Mini Ovens



MINI OVENS

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SPECIFICATIONS

Operating Voltage: Max. current at turn on: Set point: Slope: Ambient range: Power: Warm-up: Quiescent power @ 25° C: Quiescent power @ -30° C: Quiescent power with set point at max. ambient temperature:	10 to 28 Vdc (See Table 1, opposite) 496 mA 50° C to 85° C (See Table 2, opposite) ± 3° C over ambient temperature range -30° C to 10° C below set point temperature 5.96 Watts max. 4 minutes max. 1.3 Watts typical 2.2 Watts typical .30 Watts typical
MECHANICAL	
Dimensions and configuration: Terminal strength: Weight (excluding component):	See Figures 1 and 2 Leads will withstand a 2 lb. pull 5 grams max.
SOLDERABILITY	
Resistance to soldering: 95% solder coating:	Will withstand immersion of leads in 350° C solder for 3.5 seconds 5 to 10 seconds immersion of leads in 260° C solder
ENVIRONMENTAL	
Non-Operating Temperature: Altitude:	-64° C to 125° C Operating from sea level to 10,000 feet Non-operating from sea level to 50,000 feet
Humidity: Vibration:	Will withstand 95% RH for a period of 1000 hours 10 to 55 CPS with double amplitude of .06 inch along each of 3 mutually perpendicular axes
Shock:	18 impact shocks of 20 g's (3 shocks in opposite directions along ea. of 3 mutually perpendicular axes); each shock 11 milliseconds ± 1 millisecond
MATERIAL	
Case material:	Base: Lexan Cover: Lexan Pins: .020 diameter Kovar
Leads: Note:	Kovar with a 60/40 solder electroplate over nickel barrier For best performance, crystal case should be coated with thermal compound.
ORDERING INFORMATION	
Specify:	Oven series (TO5M or HC43) Operating voltage (oven #1 – 4) Set point temperature (B – K) Adjustable range (optional)

MINI OVENS Specifications

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Oven #	Volts DC	Max. Current	Max. Power	Slope
	10	413 mA	4.13 W	± 3° C
1	11	455 mA	5.00 W	± 3° C
	12	496 mA	5.95 W	± 3° C
2	15	333 mA	5.00 W	± 3° C
	18	249 mA	4.49 W	± 3° C
3	19	263 mA	5.00 W	± 3° C
	20	277 mA	5.54 W	± 3° C
	24	178 mA	4.26 W	± 3° C
4	26	192 mA	5.00 W	± 3° C
	28	207 mA	5.80 W	± 3° C

Table 1 OPERATING VOLTAGES & POWER

Table 2 SET POINT TEMPERATURE

Standard Temperatures with ±3 °C tolerance

В	C	D	E	F	G	H	K
50° C	55° C	60° C	65° C	70° C	75° C	80° C	85° C
					Noto: Adjusts	hla ta u Eº C for	

Note: Adjustable to ±5° C for B, D, F and H

T05M SERIES





PINS

- 1 +VDC
- 2 N/C except for adjustable units
- 3 0 VDC
- Note: Oven cavity accommodates a TO5 (HC35/U) crystal holder

HC43 SERIES



PINS

1 - +VDC 2 - N/C except for adjustable units 3 - 0 VDC Note: Oven cavity accommodates the following crystal holders: HC18/U, HC25/U, HC42/U, HC49/U

CO-2106 Component Oven



SPECIFICATIONS

Set point temp. (see note) Custome	er adjustable in range of 40° C to 90° C
Temperature stability	\pm 3° C over stated ambient range
Ambient range:	-55° C to 10° C below set point temperature
Warm-up (typical):	15 minutes to 1 hr from -55° C
	depending upon oven size
Operating voltage:	19 to 29 Vdc; lower voltages available by request
Power (Max. @ 24 Vdc; see note):	20 – 35 watts, depending upon oven size

ELECTRICAL CHARACTERISTICS

Oven control: Power consumption @ 25° C: (typical in still air) Power consumption @ 0° C: (typical in still air) Dielectric strength: Proportional 2.5 watts* – 7.5 watts** 3.5 watts* – 11.5 watts** 200 vac * Values typical for CO–2106–0–0 oven size @ 75° C

Set point temperature dependence on operating voltage:

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0.15° C/volt



PURCHASE SPECIFICATIONS

- 1. Size
- 2. Voltage
- 3. Set point temperature

oven size @ 75° C

** Values typical for CO-2106-4-0

Note:

- (1) OFC will use customer-specified nominal operating voltage in adjusting oven to specified set point temperature. A tolerance of ±2° C will be allowed for this adjustment.
- (2) OFC will assign a "dash number"
 (CO-2106-X-X-VV-TT) to identify the combinations of specifications you select.

Notes:

1.	LX–X:	Oven size identification	
2.	VV:	Oven operating voltage	
З.	TT:	Oven set point temperature in ° C	
4.	Cover material:	Aluminum–gold anodized	
5.	Cavity material:	Aluminum–plain anodized	
6.	Marking:	Black ink stamp as shown	
7.	Oven control:	Proportional	
8.	Set point temp. can		
	be field adjusted over 50° C range		

9. Cover may be removed without disconnecting power leads

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