

## Part Number: SM77H173-30.0M

This part is the same as the standard Pletronics Part: **SM7745MEV-30.0M** except the temperature range is extended from the standard -40°C to +85°C to the increased range of -40°C to +100°C with the stability specification increased from ±50ppm to ±100ppm.

The standard part operates within its specified parameters over the increased temperature range except the frequency deviation parameter. The part will be tested over the increased temperature range to meet this specification.

**Pletronics Inc. certifies this device is in accordance with the  
RoHS 6/6 (2011/65/EC) and WEEE (2002/96/EC) directives.**

Pletronics Inc. guarantees the device does not contain the following:  
Cadmium, Hexavalent Chromium, Lead, Mercury, PBB's, PBDE's  
Weight of the Device: 0.17 grams  
Moisture Sensitivity Level: 1 As defined in J-STD-020C  
Second Level Interconnect code: e4

### Absolute Maximum Ratings:

Parameter	Unit
V <sub>CC</sub> Supply Voltage	-0.5V to +7.0V
V <sub>i</sub> Input Voltage	-0.5V to V <sub>CC</sub> + 0.5V
V <sub>o</sub> Output Voltage	-0.5V to V <sub>CC</sub> + 0.5V
I <sub>o</sub> Output Current	+25 mA to -25 mA

### Thermal Characteristics

The maximum die or junction temperature is 155°C  
The thermal resistance junction to board is 30 to 50°C/Watt depending on the solder pads, ground plane and construction of the PCB.



# SM77H Series 3.3 V

## SM77H173-30.0M CMOS Clock Oscillators

March 2016

### Part Marking:

PLE SM77  
30.0M  
• YMDXX

#### Legend:

PLE = Pletronics

FFFFF M = Frequency in MHZ

YYWW or YWW or YMD = Date of Manufacture (year and week, or year, month and day)

All other marking is internal factory codes

Specifications such as frequency stability, supply voltage and operating temperature range, etc. are not identified from the marking. External packaging labels and packing list will correctly identify the ordered Pletronics part number.

#### Codes for Date Code YMD

Code	3	4	5	6	7	8	9
Year	2013	2014	2015	2016	20170	2018	2019

Code	A	B	C	D	E	F	G	H	J	K	L	M
Month	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Code	1	2	3	4	5	6	7	8	9	A	B	C
Day	1	2	3	4	5	6	7	8	9	10	11	12
Code	D	E	F	G	H	J	K	L	M	N	P	R
Day	13	14	15	16	17	18	19	20	21	22	23	24
Code	T	U	V	W	X	Y	Z					
Day	25	26	27	28	29	30	31					

### Package Labeling

Label is 1" x 2.6" (25.4mm x 66.7mm)

Font is Courier New

Bar code is 39-Full ASCII

Label is 1" x 2.6" (25.4mm x 66.7mm)

Font is Arial

P/N:	
	SM77H173-30.0M
Customer P/N:	
	12345678
Qty:	
	1000
D/C	
	4GX-SG
MSL: 1	

RoHS Compliant
2nd Lvl Interconnect
Category=e4
Max Safe Temp=260C for 10s 2X Max



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March 2016

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