

Part Number: **SM77H160-40.0M**

This part is the same as the standard Pletronics Part: **SM7745HEV-40.0M** with the temperature range of -40°C to $+85^{\circ}\text{C}$ with the increased temperature range of -55°C to $+125^{\circ}\text{C}$.

The standard part operates within its specified parameters over the increased range. 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 (2002/95/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_{CC} Supply Voltage	-0.5V to +7.0V
V_i Input Voltage	-0.5V to $V_{CC} + 0.5V$
V_o Output Voltage	-0.5V to $V_{CC} + 0.5V$
I_o 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 $50^{\circ}\text{C}/\text{Watt}$ depending on the solder pads, ground plane and construction of the PCB.



SM77H Series 3.3 V SM77H160-40.0M CMOS Clock Oscillators

February 2008

Part Marking:

PLE SM77 or **PLE SM77** or **7XYWWXX**
FFFF M **FFFF M** **FFFF M**
 • **YMDXX** • **YYWWXX** • **PLE XXX**

Legend:

PLE = Pletronics

FFFF 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	6	7	8	9	0	1	2
Year	2006	2007	2008	2009	2010	2011	2012

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

The part number and bar code on the label will show as SM77H160-40.0M

P/N:  SM7745HV-50.0M		
Customer P/N:  12345678		
Qty:  1000	D/C:  0632-MMO	

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