QESM405

HC49, SMD (4 pins). Microprocessor application

Frequency and Electrical Characteristics

Parameter	Min.	Тур.	Max.	Unit	Test condition / Description
Nominal frequency (Fn)	3.5700		130.00	MHz	
Calibration tolerance			±10 to ±50	ppm	Frequency at 25°C ± 2°C and specified load capacitance
Operating temperature range		-20 to +70	-40 to +85	°C	Refer to ordering information
Storage temperature range	-55		125	°C	
Frequency stability over temperature			±10 to ±50	ppm	Referenced to frequency reading at 25°C and the specified load capacitance
Long-term stability (Aging)			±5	ppm	Frequency drift over 1 year at 25°C
Shunt capacitance (CO)			7.0	pF	
Load capacitance (CL)	10		30 or series	pF	Refer to ordering information
Drive level		100	500	μW	
Equivalent series resistance (ESR) 3.5700 ~ 3.999Mhz 4.000 ~ 4.999Mhz 5.000 ~ 5.999Mhz 6.000 ~ 6.999Mhz 7.000 ~ 9.999Mhz 10.000 ~ 13.999Mhz 14.000 ~ 19.999Mhz 20.000 ~ 23.999Mhz 24.000 ~ 34.999Mhz ≥ 35.000Mhz			150 120 100 80 60 50 40 30 100 80	Ω	Mode of vibration: Fundamental (AT-cut) Fundamental (AT-cut) Fundamental (AT-cut) Fundamental (AT-cut) Fundamental (AT-cut) Fundamental (AT-cut) Fundamental (AT-cut) Sundamental (AT-cut) 3rd Overtone (AT-cut) 3rd Overtone (AT-cut)
Insulation resistance (IR)	500			MΩ	100 V ±15 V at 25°C

Order Part Example – QESM405.1.30.HQ.50.20 / 10.000MHZ

Parameter	Package type	Vibration mode	Frenquency tolerance	Operating temperature range	Frenquency stability	Load capacitance	Nominal Frenquency (MHz)
Code	QESM405	1	10	HQ	10	10	10.000MHZ
Decode	QESM = SMD Crystal 405 = Xtal on pin 1 & 4 406 = Xtal on all pins	1 = Fundamental 3 = 3rd Overtone	10 = ±10ppm 30 = ±30ppm 50 = ±50ppm	D = -40°C F = -30°C H = -20°C J = -10°C L = 0°C M = +50°C Q = +70°C T = +85°C	10 = ±10ppm 30 = ±30ppm 50 = ±50ppm	00 = series 10 = 10pF 20 = 20pF 30 = 30pF	Please enter the nominal frequency







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Model Outline, Recommended Pad Layout and Marking

Reflow Soldering Profile





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Packaging

