

SPECIFICATION

SERIES NUMBER	QSMO-4210 ₍₁₎ / ₍₃₎	QSMO-4230 ₍₁₎ / ₍₃₎
NOMINAL FREQUENCY	1.8 to 170 MHz	
OVERALL FREQUENCY STABILITY ⁽¹⁾ (Max)	A = ±25ppm 0°C to 70°C E = ±25ppm -40°C to +85°C B = ±50ppm 0°C to 70°C F = ±50ppm -40°C to +85°C C = ±100ppm 0°C to 70°C G = ±100ppm -40°C to +85°C D = ±10ppm 0°C to 70°C H = ±20ppm -40°C to +85°C X = Customer Specified Y = Customer Specified	
STORAGE TEMPERATURE RANGE	-50°C to +125°C	
SUPPLY VOLTAGE	+3.3V ±10%	+5.0V ±10%
SUPPLY CURRENT (Max)	1.8 ~ 32MHz 12mA >32 ~ 50MHz 16.5mA >50 ~ 67MHz 18mA >67 ~ 125MHz 40mA >125 ~ 170MHz 50mA	1.8 ~ 32MHz 18mA >32 ~ 67MHz 50mA >67 ~ 125MHz 80mA >125 ~ 170MHz 90mA
STAND BY CURRENT AT '0' LEVEL AT PIN 1	10µA	
OUTPUT VOLTAGE "0" Level (Max) "1" Level (Min)	0.33 VOLTS 2.97 VOLTS	0.5 VOLTS 4.5 VOLTS
OUTPUT LOAD (Max) TTL Load / CMOS Load	10LS TTL / 15pF	
OUTPUT CURRENT (Max) "0" Level "1" Level	2mA 2mA	
RISE/FALL TIMES (Max) (AT 0.1 V _{DD} ~ 0.9V _{DD})	6nSEC (< 80MHz) 4nSEC (80MHz +)	5nSEC (< 80MHz) 4nSEC (80MHz +)
SYMMETRY ⁽³⁾ (Max) (AT 0.5 V _{DD})	45 / 55% (Default) S = 47.5 / 52.5% (Optional)	
START-UP TIME (Max)	10mSEC	
TRI-STATE CONTROL VIH (Output Enabled) VOH (Output High Impedance)	2.0 V MAX 0.8 V MIN	

Note (1): Customer to add 'A' to 'D' or 'E' to 'H' for Overall Frequency Stability (or 'X' or 'Y' for custom requirement based on required temp. range. Please consult our Technical Department).

Note (2): Height of 1.05mm is optionally available

Note (3): Optional Symmetry

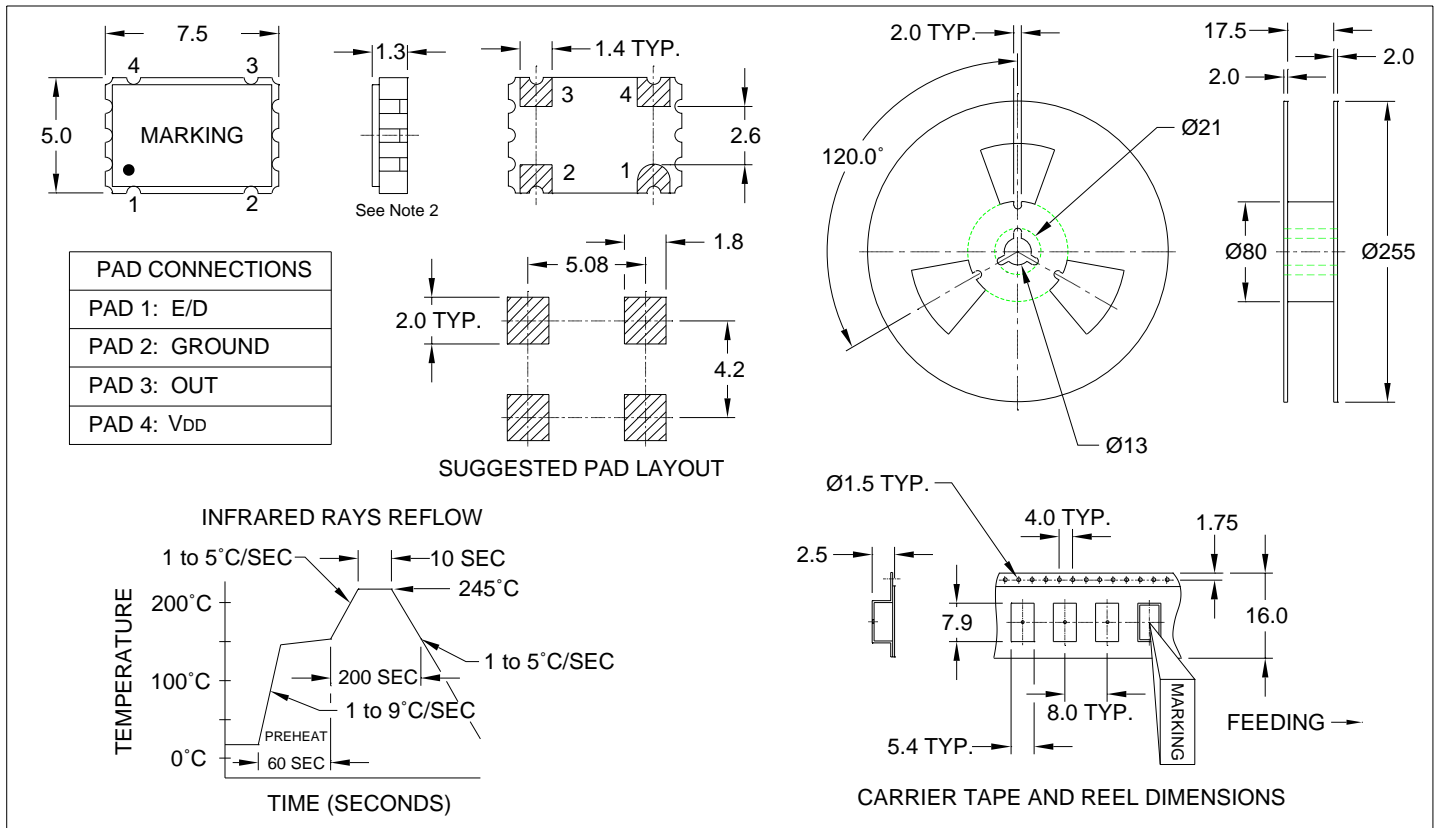
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ALL DIMENSIONS AND TOLERANCES ARE IN mm



SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE



SPECIFICATION

SERIES NUMBER	QSMO-4250 ₍₁₎ / ₍₃₎		QSMO-4260 ₍₁₎ / ₍₃₎	
NOMINAL FREQUENCY	1.0 to 125 MHz			
OVERALL FREQUENCY STABILITY ⁽¹⁾ (Max)	A = ±25ppm B = ±50ppm C = ±100ppm D = ±10ppm X = Customer Specified	0°C to 70°C	E = ±25ppm F = ±50ppm G = ±100ppm H = ±20ppm Y = Customer Specified	-40°C to +85°C
STORAGE TEMPERATURE RANGE	-50°C to +125°C			
SUPPLY VOLTAGE	+1.8V ±10%		+2.5V ±10%	
SUPPLY CURRENT (Max)	1.0 ~ 32MHz >32 ~ 50MHz >50 ~ 67MHz >67 ~ 125MHz	10mA 12mA 15mA 25mA	1.0 ~ 32MHz >32 ~ 67MHz >67 ~ 125MHz	15mA 20mA 30mA
STAND BY CURRENT AT '0' LEVEL AT PIN 1	10µA			
OUTPUT VOLTAGE "0" Level (Max) "1" Level (Min)	10% V _{DD} 90% V _{DD}			
OUTPUT LOAD (Max) TTL Load / CMOS Load	30pF (15pF Typical)			
OUTPUT CURRENT (Max) "0" Level "1" Level	2mA 2mA			
RISE/FALL TIMES (Max) (AT 0.1 V _{DD} ~ 0.9V _{DD})	6nSEC		7nSEC	
SYMMETRY ⁽³⁾ (Max) (AT 0.5 V _{DD})	45 / 55% (Default) S = 47.5 / 52.5% (Optional)			
START-UP TIME (Max)	10mSEC			
TRI-STATE CONTROL VIH (Output Enabled) VOH (Output High Impedance)	Pin 1 = H or OPEN Pin 1 = L			

Note (1): Customer to add 'A' to 'D' or 'E' to 'H' for Overall Frequency Stability (or 'X' or 'Y' for custom requirement based on required temp. range. Please consult our Technical Department).

Note (2): Height of 1.05mm is optionally available

Note (3): Optional Symmetry