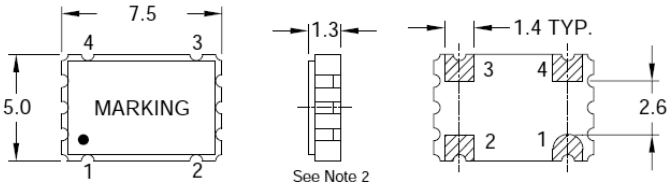
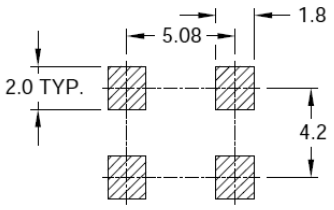
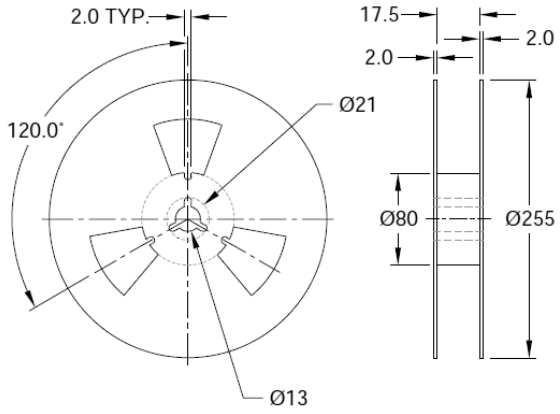


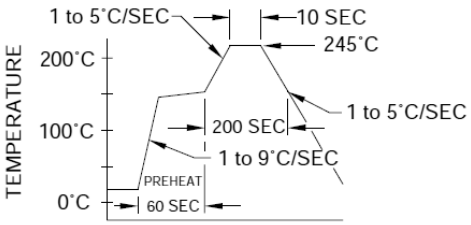
PAD CONNECTIONS
PAD 1: E/D
PAD 2: GROUND
PAD 3: OUT
PAD 4: V_{DD}

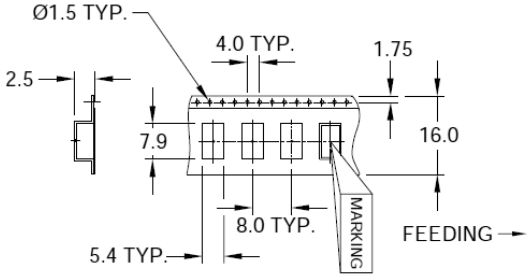


SUGGESTED PAD LAYOUT



INFRARED RAYS REFLOW





CARRIER TAPE AND REEL DIMENSIONS

SPECIFICATIONS

Series Number	QSMO-4210__[1]/__[3]	QSMO-4230__[1]/__[3]	QSMO-4250__[1]/__[3]	QSMO-4260__[1]/__[3]
Frequency Range	12.0kHz to 170 MHz		1.0 to 125 MHz	
Overall Frequency Stability (Max) [1]	A = ±25ppm 0° to 70° B = ±50ppm 0° to 70° C = ±100ppm 0° to 70° D = ±10ppm 0° to 70°		E = ±25ppm -40° to 85° F = ±50ppm -40° to 85° G = ±100ppm -40° to 85° H = ±20ppm -40° to 85°	
Storage Temperature Range	-50°C to +125°C			
Supply Voltage	+3.3V ±10%	+5.0V ±10%	+1.8V ±10%	+2.5V ±10%
Supply Current (Max)	12kHz ~ 32MHz 12mA >32 ~ 50MHz 16.5mA >50 ~ 67MHz 18mA >67 ~ 125MHz 40mA >125 ~ 170MHz 50mA	12kHz ~ 32MHz 18mA >32 ~ 67MHz 50mA >67 ~ 125MHz 80mA >125 ~ 170MHz 90mA	1.0 ~ 32MHz 10mA >32 ~ 50MHz 12mA >50 ~ 67MHz 15mA >67 ~ 125MHz 25mA	1.0 ~ 32MHz 15mA >32 ~ 67MHz 20mA >67 ~ 125MHz 30mA
Standby 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	10LS TTL / 15pF		30pF (15pF Typical)	
Output Current "0" Level "1" Level	2mA 2mA		4mA 4mA	
Rise/Fall Times (Max) (At 0.1V_{DD} ~ 0.9V_{DD})	6n Sec (<80 MHz) 4n Sec (80 MHz +)	5n Sec (<80 MHz) 4n Sec (80 MHz +)	6n Sec	7n Sec
Symmetry (Max) (At 0.5V_{DD})	45% / 55% (Default) S = 47.5% / 52.5% (Optional) [3]			
Start-Up Time (Max)	10mSec			
Tri-State Control #1 Open #1 ≥0.7V_{DD} #1 ≤0.3V_{DD}	#3 Active #3 Active #3 High Z			

Note (1): Customer to add 'A' to 'D' or 'E' to 'H' for Overall Frequency Stability.
Note (2): (see drawing) Height of 1.05mm is optionally available
Note (3): Optional Symmetry (add 'S' to Part Number if desired)

Note: The above specifications are typical only. Please contact our Sales Department for specific requirements.

Hy-Q International (Australia) Pty. Ltd. Telephone: +61 (03) 9562-8222 Email: sales@hy-q.com.au Website: www.hy-q.com.au