D Series



- O HC-49/S SMD Crystal
- O 3rd Lead Ground Option Available
- **O Wide Frequency Range**
- O Fundamental or 3rd OT AT Cut



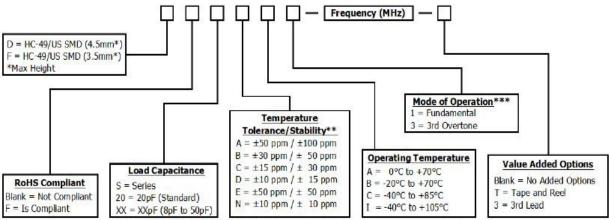
3.200MHz to 80.000MHz	
(See Part Number Guide for Options)	
(See Part Number Guide for Options)	
-55°C to +125°C	
±5ppm / first year Max	
7pF Max	
20pF Standard (See Part Number Guide for Options)	
See ESR Chart	
See ESR Chart	
1mW Max	



ESR Chart

Frequency Range	ESR (Ohms)	Mode / Cut
3.200MHz to 3.999MHz	150 Max	Fund / AT
4.000MHz to 4.999MHz	120 Max	Fund / AT
5.000MHz to 5.999MHz	100 Max	Fund / AT
6.000MHz to 7.999MHz	90 Max	Fund / AT
8.000MHz to 9.999MHz	70 Max	Fund / AT
10.000MHz to 11.999MHz	50 Max	Fund / AT
12.000MHz to 14.999MHz	50 Max	Fund / AT
15.000MHz to 19.999MHz	40 Max	Fund / AT
20.000MHz to 33.000MHz	30 Max	Fund / AT
24.576MHz to 29.999MHz	100 Max	3 rd OT / AT
30.000MHz to 80.000MHz	80 Max	3 rd OT / AT

Part Number



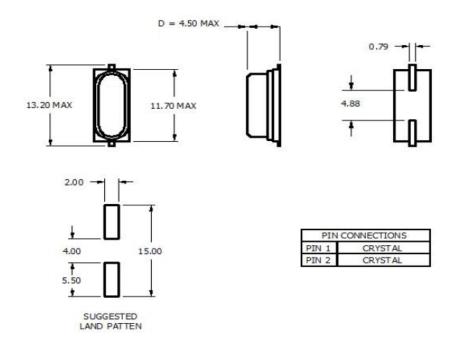
^{*} Please consult with MMD sales department for any other parameters or options.

^{**} Not all Frequency Tolerance/Stability options available at this temperature range.

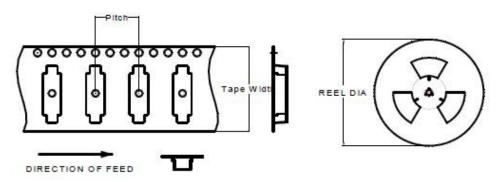
***Mode is dependant upon Frequency. See ESR Chart



Mechanical Details



Tape & Reel



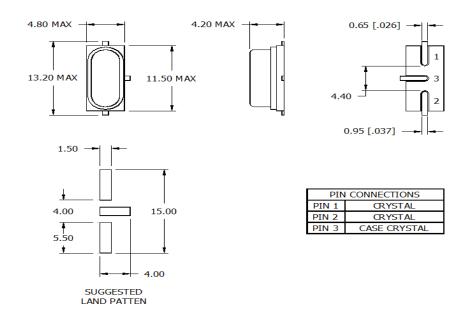
PITCH	12.00 [0.628]
TAPE WIDTH	24.00 [0.945]
REEL DIA	330 [13]
COUNT.	1000

Notes: UNLESS OTHERWISE SPECIFIED

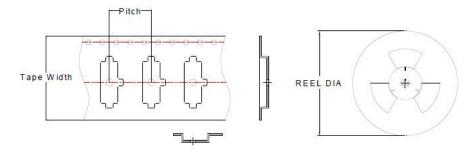
- Applicable Standards / Specifications_ <u>ANSI Y14.5M</u>, Dimensions and Tolerances <u>EIA-481-B</u>, 8mm through 200mm Embossed Carrier Tapping and 8mm and 12mm Punched Carrier Tapping of Surface Mount Components for Automatic Handling.
- 2. Dimensions are in millimetres.
- 3. Tolerances are ±0.1 [0.004] mm unless otherwise specified.
- 4. Do not scale drawing.



3rd Lead Mechanical Details



3rd Lead Tape & Reel Dimensions



PITCH	12.00 [0.471]
TAPE WIDTH	24.00 [0.942]
REEL DIA	330 [13.0]
COUNT.	1000 pcs

NOTES: UNLESS OTHERWISE SPECIFIED

- Applicable Standards / Specifications_ <u>ANSI Y14.5M</u>, Dimensions and Tolerances <u>EIA-481-B</u>, 8mm through 200mm Embossed Carrier Tapping and 8mm and 12mm Punched Carrier Tapping of Surface Mount Components for Automatic Handling.
 - 6. Dimensions are in millimetres.
- 7. Tolerances are ± 0.10 [0.004] mm unless otherwise specified.
- 8. Do not scale drawing.