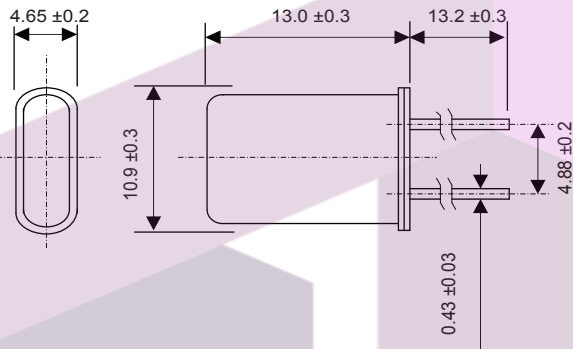


Crystal Unit - HC-49/U

Outline Drawing

Dimension (Unit=mm)



Features & Applications:

- General, industrial, microcontrollers
 - RoHS Compliant
 - Cost Effective
 - Well established product
 - Wide frequency range
 - Superior resistance weld HC-49/U metal case
- Supplied loose as standard.
Taped product available to special order.

Specification

| | | | |
|------------------------------|---|-------------------|-------------------|
| Nominal Frequency Range | 1.8 to 32MHz | 24 to 75MHz | 75 to 200MHz |
| Vibration Mode | Fundamental (AT) | 3rd Overtone (AT) | 5th Overtone (AT) |
| Frequency Tolerance @25°C | ±20 or ± 30 ppm | | |
| Temperature Stability | ±30 or ± 50 ppm | | |
| Operating Temperature Range | -10°C to +60°C (Option: -20°C to +70°C) | | |
| Storage Temperature Range | -20°C to +70°C (Option: -30°C to +80°C) | | |
| Load Capacitance | 8pF to 32pF or series | | |
| Equivalent Series Resistance | see ESR table below | | |
| Shunt Capacitance | 5pF max.(≤18MHz) or 7pF max. (>18MHz) | | |
| Drive Level | 200 μW max (≤5MHz) 100 μW max (>5MHz) | | |
| Insulation Resistance | 500MΩmin @ 100VDC | | |
| Aging | ±5ppm per year | | |

ESR Table

| Case Frequency | Vibration Mode | HC 49U Ω Max |
|----------------|----------------|--------------|
| 1.0-1.8MHz | F | 3000 |
| 1.8-2.00MHz | F | 500 |
| 2.01-2.399MHz | F | 450 |
| 2.4-2.99MHz | F | 300 |
| 3.0-3.5MHz | F | 150 |
| 3.5-3.99MHz | F | 90 |
| 4.0-4.99MHz | F | 80 |
| 5.0-5.99MHz | F | 70 |
| 6.0-6.99MHz | F | 60 |
| 7.0-7.99MHz | F | 50 |
| 8.0-9.99MHz | F | 40 |
| 10-13.99MHz | F | 35 |
| 14-23.99MHz | F | 25 |
| 24-25.0MHz | F/3 | 25/50 |
| 25-30.0MHz | F/3 | 25/50 |
| 30-75.0MHz | 3 | 50 |
| 75-125.0MHz | 5 | 80 |
| 125-150MHz | 5 | 100 |
| 150-200MHz | 5 | 120 |

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2008.

Part Number Guide:

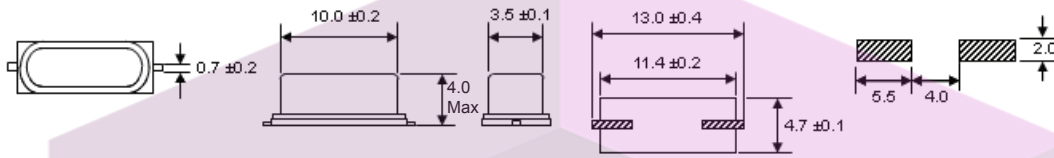
| Case | Frequency (MHz) | Freq. Tol (PPM) | Temp Stab (PPM) | Temp Range 60 = -10~+60 70 = -20~+70 | Load Cap pf 00 = Series | Vibration Mode AT Cut F=Fund.3 Overtone | Ant Part No. |
|-------|-----------------|-----------------|-----------------|--|-------------------------------|---|--------------|
| HC49U | 1.8432 | 20 | 50 | 60 | 30 | ATF | XTL-1012 |
| HC49U | 2 | 50 | 100 | 60 | 20 | ATF | XTL-1014 |
| HC49U | 2.4576 | 20 | 50 | 60 | 30 | ATF | XTL-1017 |
| HC49U | 3.2768 | 20 | 30 | 60 | 12 | ATF | XTL-1020 |
| HC49U | 3.579545 | 20 | 50 | 60 | 20 | ATF | XTL-1021 |
| HC49U | 3.6864 | 20 | 50 | 60 | 30 | ATF | XTL-1023 |
| HC49U | 3.6864 | 30 | 50 | 70 | 30 | ATF | XTL-1024 |
| HC49U | 4 | 20 | 10 | 70 | 30 | ATF | XTL-1027 |
| HC49U | 4 | 20 | 50 | 60 | 30 | ATF | XTL-1028 |
| HC49U | 4 | 30 | 50 | 70 | 30 | ATF | XTL-1029 |
| HC49U | 4.096 | 20 | 20 | 70 | 30 | ATF | XTL-1031 |
| HC49U | 4.096 | 30 | 50 | 70 | 30 | ATF | XTL-1032 |
| HC49U | 4.194304 | 20 | 30 | 60 | 12 | ATF | XTL-1033 |
| HC49U | 4.608 | 20 | 50 | 60 | 30 | ATF | XTL-1037 |
| HC49U | 4.9152 | 20 | 50 | 60 | 30 | ATF | XTL-1040 |
| HC49U | 4.9152 | 30 | 50 | 70 | 30 | ATF | XTL-1041 |
| HC49U | 5 | 20 | 50 | 60 | 30 | ATF | XTL-1043 |
| HC49U | 5.0688 | 20 | 50 | 60 | 00 | ATF | XTL-1044 |
| HC49U | 6 | 20 | 50 | 60 | 30 | ATF | XTL-1051 |
| HC49U | 6 | 30 | 50 | 70 | 30 | ATF | XTL-1053 |
| HC49U | 6.144 | 20 | 50 | 60 | 30 | ATF | XTL-1055 |
| HC49U | 6.5536 | 20 | 30 | 60 | 12 | ATF | XTL-1057 |
| HC49U | 7.3728 | 20 | 50 | 60 | 30 | ATF | XTL-1059 |
| HC49U | 8 | 20 | 50 | 60 | 30 | ATF | XTL-1062 |
| HC49U | 8 | 30 | 50 | 70 | 30 | ATF | XTL-1064 |
| HC49U | 10 | 20 | 10 | 70 | 30 | ATF | XTL-1069 |
| HC49U | 10 | 20 | 50 | 60 | 30 | ATF | XTL-1070 |
| HC49U | 11 | 20 | 30 | 60 | 30 | ATF | XTL-1073 |
| HC49U | 11.0592 | 20 | 30 | 60 | 20 | ATF | XTL-1074 |
| HC49U | 12 | 20 | 30 | 60 | 30 | ATF | XTL-1079 |
| HC49U | 12.288 | 20 | 50 | 60 | 30 | ATF | XTL-1081 |
| HC49U | 14.31818 | 20 | 50 | 60 | 00 | ATF | XTL-1083 |
| HC49U | 14.7456 | 20 | 30 | 60 | 30 | ATF | XTL-1087 |
| HC49U | 16 | 20 | 30 | 60 | 30 | ATF | XTL-1089 |
| HC49U | 19.6608 | 20 | 50 | 60 | 30 | ATF | XTL-1096 |
| HC49U | 20 | 20 | 30 | 60 | 00 | ATF | XTL-1098 |
| HC49U | 22.1184 | 20 | 50 | 60 | 30 | ATF | XTL-1114 |
| HC49U | 24 | 20 | 50 | 60 | 00 | ATF | XTL-1120 |
| HC49U | 32 | 20 | 30 | 60 | 00 | ATF | XTL-1131 |

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2008.

Crystal Unit - HC-49/SM

Outline Drawing

Dimension (Unit=mm)



Features & Applications:

Designed for applications where board height is critical

- General, industrial, microcontrollers
- Cost effective
- Surface mount
- Low profile (4mm height)
- Superior resistance weld HC49/4SMX metal case
- Supplied taped and reeled.

Specification

| | | |
|------------------------------|---|--------------------------------|
| Nominal Frequency Range | 3.5 to 32MHz | 24 to 70MHz |
| Vibration Mode | Fundamental (A _T) | 3rd Overtone (A _T) |
| Frequency Tolerance @25°C | ±20, ±30 or ±50ppm (Options: ±10, ±15ppm) | |
| Temperature Stability | ±30 or ±50 ppm | |
| Operating Temperature Range | -10°C to +60°C or -20°C to +70°C | |
| Storage Temperature Range | -20°C to +70°C or -30°C to +80°C | |
| Load Capacitance | 8pF to 33pF or series | |
| Equivalent Series Resistance | see ESR table below | |
| Shunt Capacitance | 5pF max.(≤18MHz) or 7pF max. (>18MHz) | |
| Drive Level | 200 μW max (≤5MHz) 100μW max (>5MHz) | |
| Insulation Resistance | 500MΩmin @ 100VDC | |
| Aging | ±5ppm per year | |

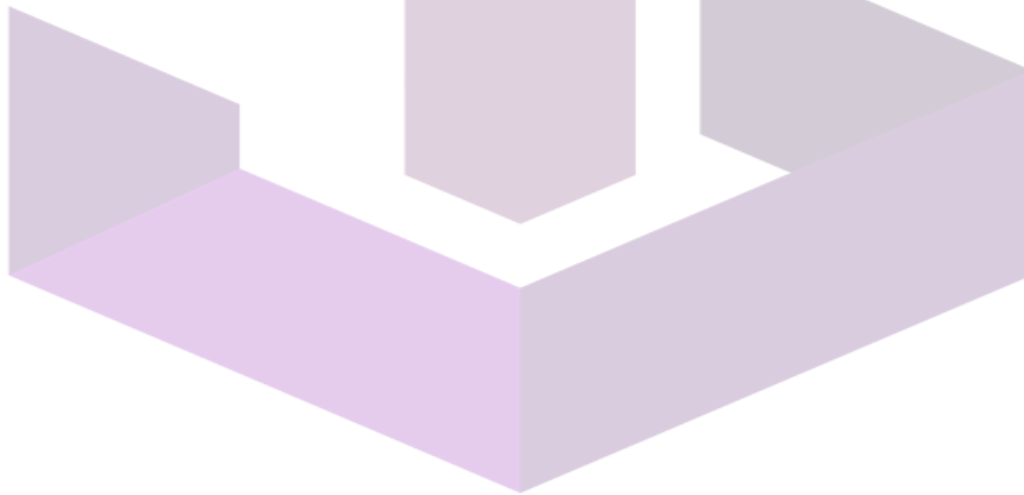
ESR Table

| Case | Vibration | HC 49SM |
|-------------|-----------|---------|
| Frequency | Mode | Ω Max |
| 3.5-3.99MHz | F | 150 |
| 4.0-4.99MHz | F | 120 |
| 5.0-5.99MHz | F | 100 |
| 6.0-6.99MHz | F | 80 |
| 7.0-7.99MHz | F | 80 |
| 8.0-9.99MHz | F | 70 |
| 10-13.99MHz | F | 50 |
| 14-23.99MHz | F | 40 |
| 24-25.0MHz | F/3 | 40/80 |
| 25-30.0MHz | F/3 | 40/80 |
| 30-70.0MHz | 3 | 80 |

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2008.

Part Number Guide:

| Case | Frequency (MHz) | Freq. Tol (PPM) | Temp Stab (PPM) | Temp Range 60 = -10~+60 70 = -20~+70 | Load Cap pf 00 = Series | Vibration Mode AT Cut F=Fund.3 Overtone | Ant Part No. |
|--------|-----------------|-----------------|-----------------|--|-------------------------------|---|--------------|
| HC49SM | 3.579545 | 30 | 50 | 60 | 16 | ATF | XTL-5014 |
| HC49SM | 3.6864 | 30 | 50 | 60 | 16 | ATF | XTL-5014 |
| HC49SM | 4 | 30 | 50 | 60 | 16 | ATF | XTL-5021 |
| HC49SM | 4.9152 | 30 | 50 | 60 | 16 | ATF | XTL-5025 |
| HC49SM | 6 | 30 | 50 | 60 | 30 | ATF | XTL-5032 |
| HC49SM | 8 | 30 | 50 | 60 | 16 | ATF | XTL-5038 |
| HC49SM | 10 | 30 | 50 | 60 | 16 | ATF | XTL-5043 |
| HC49SM | 11.0592 | 30 | 50 | 60 | 16 | ATF | XTL-5048 |
| HC49SM | 12 | 30 | 50 | 60 | 16 | ATF | XTL-5050 |
| HC49SM | 16 | 30 | 50 | 60 | 16 | ATF | XTL-5055 |
| HC49SM | 20 | 30 | 50 | 60 | 16 | ATF | XTL-5062 |



SKYTECH

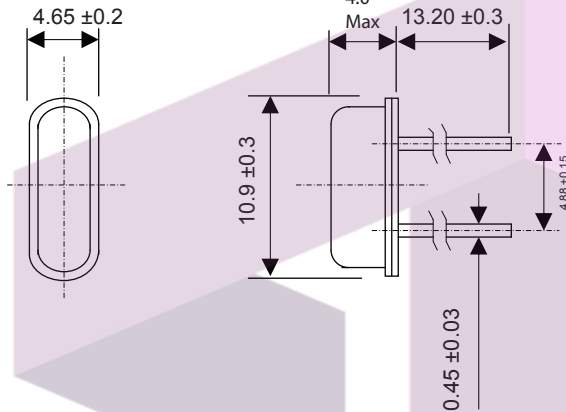
تهیه و توزیع قطعات الکترونیک

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2008.

Crystal Unit - HC-49/S

Outline Drawing

Dimension (Unit=mm)



Features & Applications:

Designed for applications where board height and space is critical

- General, industrial, microcontrollers
- Cost effective
- Low profile (4mm height)
- Superior resistance weld HC49/4H metal case

Supplied loose as standard. Taped product available to special order.

Specification

| | | |
|------------------------------|---|-------------------|
| Nominal Frequency Range | 3.5 to 32MHz | 24 to 70MHz |
| Vibration Mode | Fundamental (AT) | 3rd Overtone (AT) |
| Frequency Tolerance @25°C | ±20, ±30 or ±50ppm (Options: ±10, ±15ppm) | |
| Temperature Stability | ±30 or ±50 ppm | |
| Operating Temperature Range | -10°C to +60°C (Option: -20°C to +70°C) | |
| Storage Temperature Range | -20°C to +70°C (Option: -30°C to +80°C) | |
| Load Capacitance | 8pF to 32pF or series | |
| Equivalent Series Resistance | see ESR table below | |
| Shunt Capacitance | 5pF max.(≤18MHz) or 7pF max. (>18MHz) | |
| Drive Level | 200 μW max (≤5MHz) 100 μW max (>5MHz) | |
| Insulation Resistance | 500MΩmin @ 100VDC | |
| Aging | ±5ppm per year | |

ESR Table

| Case Frequency | Vibration Mode | HC 49S Ω Max |
|----------------|----------------|--------------|
| 3.5-3.99MHz | F | 150 |
| 4.0-4.99MHz | F | 120 |
| 5.0-5.99MHz | F | 100 |
| 6.0-6.99MHz | F | 80 |
| 7.0-7.99MHz | F | 80 |
| 8.0-9.99MHz | F | 70 |
| 10-13.99MHz | F | 50 |
| 14-23.99MHz | F | 40 |
| 24-25.0MHz | F/3 | 40/80 |
| 25-30.0MHz | F/3 | 40/80 |
| 30-70.0MHz | 3 | 80 |

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2008.

Part Number Guide:

| Case | Frequency (MHz) | Freq. Tol (PPM) | Temp Stab (PPM) | Temp Range 60 = -10~+60 70 = -20~+70 | Load Cap pf 00 = Series | Vibration Mode AT Cut F=Fund.3 Overtone | Ant Part No. |
|-------|-----------------|-----------------|-----------------|--|-------------------------------|---|--------------|
| HC49S | 3.579545 | 30 | 50 | 70 | 20 | ATF | XTL-3012 |
| HC49S | 3.6864 | 30 | 50 | 70 | 30 | ATF | XTL-3015 |
| HC49S | 4 | 20 | 50 | 60 | 30 | ATF | XTL-3018 |
| HC49S | 4.194304 | 30 | 50 | 60 | 30 | ATF | XTL-3024 |
| HC49S | 4.433619 | 30 | 50 | 60 | 20 | ATF | XTL-3026 |
| HC49S | 4.9152 | 30 | 50 | 70 | 30 | ATF | XTL-3028 |
| HC49S | 6 | 30 | 50 | 60 | 30 | ATF | XTL-3035 |
| HC49S | 7.3728 | 15 | 30 | 60 | 18 | ATF | XTL-3039 |
| HC49S | 7.68 | 30 | 50 | 60 | 30 | ATF | XTL-3042 |
| HC49S | 8 | 30 | 50 | 70 | 30 | ATF | XTL-3044 |
| HC49S | 9.8304 | 30 | 50 | 60 | 30 | ATF | XTL-3048 |
| HC49S | 10 | 30 | 50 | 70 | 30 | ATF | XTL-3052 |
| HC49S | 11.0592 | 30 | 50 | 70 | 30 | ATF | XTL-3060 |
| HC49S | 12 | 30 | 50 | 70 | 30 | ATF | XTL-3064 |
| HC49S | 16 | 30 | 50 | 70 | 30 | ATF | XTL-3069 |
| HC49S | 18.432 | 30 | 50 | 60 | 30 | ATF | XTL-3074 |
| HC49S | 20 | 30 | 50 | 70 | 12 | ATF | XTL-3078 |
| HC49S | 24 | 50 | 50 | 60 | 30 | ATF | XTL-3085 |

SKYTECH

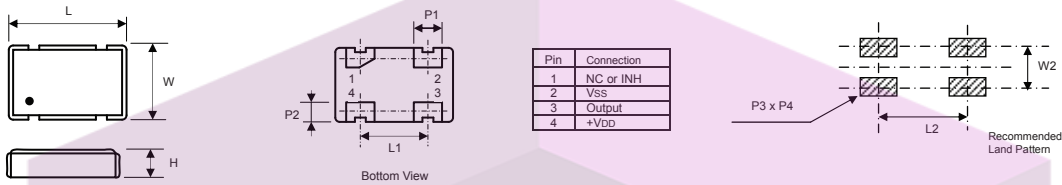
تهیه و توزیع قطعات الکترونیک

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2008.

SMD Clock Oscillator - DXO-57

Outline Drawing

Dimension (Unit=mm)

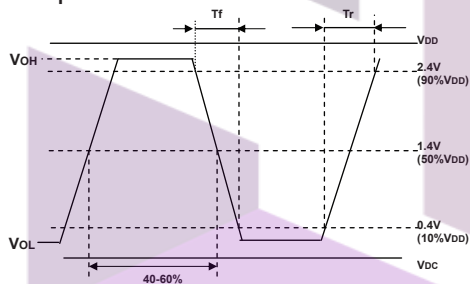


| Type | L | W | H | L1 | P1 | P2 | L2 | W2 | P3 | P4 |
|--------|-----------|-----------|----------|------------|----------|----------|-----------|------------|----------|----------|
| DXO-75 | 7.0 ±0.15 | 5.0 ±0.15 | 1.4 ±0.2 | 5.08 ±0.15 | 1.4 ±0.1 | 1.2 ±0.1 | 6.4 ±0.15 | 2.54 ±0.15 | 2.2 ±0.1 | 1.4 ±0.1 |

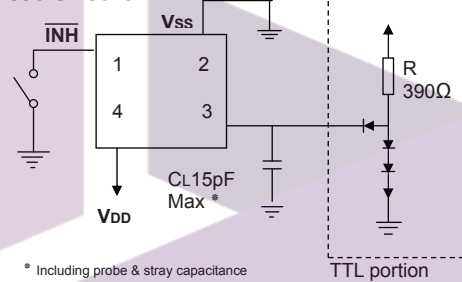
Quartz crystal oscillators house a small 5x7mm package. Choice of 3.3V and 5V supply versions.

- General, Microprocessor • Ultra Thin Ceramic Package • Cost effective • Surface mount •
- HCMOS/TTL output • Tri-state option • Supplied taped and reeled.

Output Waveform



Test Circuit



Specification

| | | | |
|---|--|----------------|-------------|
| Nominal Frequency Range | 1.5 to 23.99MHz | 24 to 49.99MHz | 50 to 80MHz |
| Frequency Tolerance | ±50ppm (Options: ±25, ±100ppm) | | |
| Operating Temperature Range | 0°C to +70°C | | |
| Storage Temperature Range | -40°C to +85°C | | |
| Supply Voltage (V _{DD}) | 3.3V or 5V ±10% | | |
| Current Consumption (max.) | 25mA | 40mA | 50mA |
| Output Symmetry at 1/2V _{DD} | 40% to 60% (standard), 45% to 55% tight | | |
| Output Load | 15pF HCMOS or 10TTL | | |
| Output Level "L" (max.) | 10% V _{DD} HCMOS or +0.4VDC TTL | | |
| Output Level "H" (min.) | 90% V _{DD} HCMOS or +2.4VDC TTL | | |
| Rise/Fall Time (10%-90% V _{DD})(max.) | 10ms | | |
| Start up Time (max.) | 10ms | | |
| Stand by function | Tri State | | |

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2008.

Part Number Guide:

| Case | Frequency (MHz) | Freq. Tol (PPM) | Symmetry | Input Voltage | Ant Part No. |
|-------|-----------------|-----------------|----------|---------------|--------------|
| DXO57 | 4 | 50 | T | 3.3 | DXO-2014 |
| DXO57 | 8 | 50 | T | 3.3 | DXO-2022 |
| DXO57 | 10 | 50 | T | 3.3 | DXO-2028 |
| DXO57 | 12 | 50 | T | 3.3 | DXO-2033 |
| DXO57 | 16 | 50 | T | 3.3 | DXO-2026 |
| DXO57 | 20 | 50 | T | 3.3 | DXO-2034 |
| DXO57 | 24 | 50 | T | 3.3 | DXO-2037 |
| DXO57 | 32.768 | 50 | T | 3.3 | DXO-2041 |
| DXO57 | 40 | 50 | T | 3.3 | DXO-2052 |
| DXO57 | 50 | 50 | T | 3.3 | DXO-2059 |
| DXO57 | 60 | 50 | T | 3.3 | DXO-2066 |
| DXO57 | 80 | 50 | T | 3.3 | DXO-2070 |
| DXO57 | 100 | 50 | T | 3.3 | DXO-2081 |

SKYYTECH

تهیه و توزیع قطعات الکترونیک

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2008.

Crystal Unit - DX-57

Outline Drawing

Dimension (Unit=mm)

| Pin | Connection |
|-----|------------|
| 1 | Xtal |
| 2 | GND |
| 3 | Xtal |
| 4 | GND |

Features & Applications:

- Communication Equipment, PDA's, Wireless security systems
- Cost Effective
- Surface Mount
- Ultra thin ceramic package
- Size 5 x 7mm
- Height 1.4mm max.

Supplied taped and reeled.

Specification

| | | |
|------------------------------|-----------------------|-------------------|
| Nominal Frequency Range | 10 to 30MHz | 30 to 60MHz |
| Vibration Mode | Fundamental (AT) | 3rd Overtone (AT) |
| Frequency Tolerance @25°C | ±20, ± 30 or ±50ppm | |
| Temperature Stability | ±30 or ± 50 ppm | |
| Operating Temperature Range | -20°C to +70°C | |
| Storage Temperature Range | -30°C to +80°C | |
| Load Capacitance | 8pF to 32pF or series | |
| Equivalent Series Resistance | see ESR table below | |
| Shunt Capacitance | 7pF max | |
| Drive Level | 100 μW max | |
| Insulation Resistance | 500MΩmin @ 100VDC | |
| Aging | ±5ppm per year | |

ESR Table

| Case | Vibration Mode | DX-57 Ω Max |
|--------------|----------------|-------------|
| Frequency | Mode | |
| 10-13.99 MHz | F | 60 |
| 14-30.0 MHz | F | 50 |
| 30-60.0MHz | 3 | 100 |

Part Number Guide:

| Case | Frequency (MHz) | Freq. Tol (PPM) | Temp Stability (PPM) | Temp Range 60 = -10~+60 70 = -20~+70 | Load Cap pf 00 = Series | Vibration Mode AT Cut F=Fund.3 Overtone | Ant Part No. |
|------|-----------------|-----------------|----------------------|--|----------------------------|---|--------------|
| DX57 | 10 | 30 | 50 | 70 | 20 | ATF | XTL-7024 |
| DX57 | 11.0592 | 30 | 50 | 70 | 20 | ATF | XTL-7026 |
| DX57 | 12 | 30 | 50 | 70 | 20 | ATF | XTL-7029 |
| DX57 | 18.432 | 30 | 50 | 70 | 20 | ATF | XTL-7036 |
| DX57 | 19.6608 | 30 | 50 | 70 | 20 | ATF | XTL-7040 |
| DX57 | 24 | 30 | 50 | 70 | 20 | ATF | XTL-7047 |
| DX57 | 27 | 30 | 50 | 70 | 20 | ATF | XTL-7052 |
| DX57 | 32 | 30 | 50 | 70 | 20 | AT3 | XTL-7056 |

Disclaimer: This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2008.