



MAJOR CRYSTAL TYPES - FREQUENCY VS. HOLDER

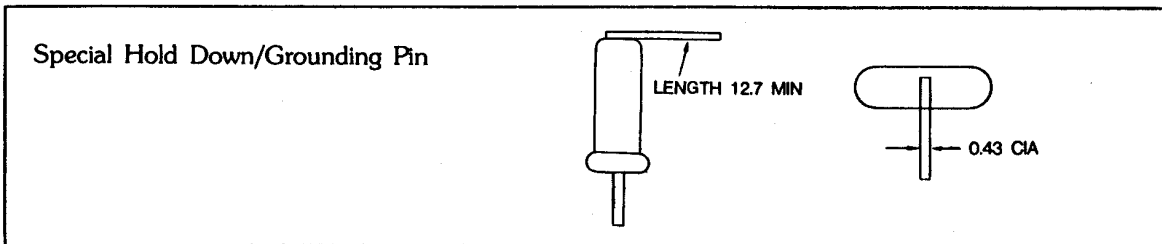
| | | | | | | | | | |
|-----------------|----------------|---------|------------------|---------|---------|---------|---------|-------------------|---------|
| | | | | | | | | | |
| Frequency Range | 14KHz to 50KHz | → | 155KHz to 200MHz | → | | → | | 1.00MHz to 300MHz | → |
| Holder Type | HC-13/U | HC-34/U | HC-6/U | HC-48/U | HC-17/U | HC-33/U | HC-51/U | HC-36/U | HC-47/U |
| Solder Seal | ✓ | ✓ | | | ✓ | ✓ | | | |
| Resist Weld | | | | ✓ | ✓ | | ✓ | | |
| Cold Weld | | | | | | | | | |

Nominal Dimensions in mm

| | | | | | | | | | | | | | | |
|---------|----------|-------|---|-------|---|------|---|-------|---|------|---|------|---|------|
| Package | Height | 38.76 | → | 19.68 | → | | → | | → | | | | | |
| | Width | 19.23 | → | | → | | → | 18.67 | → | | | | | |
| | Thick | 8.94 | → | | → | | → | 8.51 | → | | | | | |
| Pin | Length | 6.04 | | 38.1 | → | 6.04 | → | 11.09 | → | 12.7 | → | 6.04 | → | 38.1 |
| | Diameter | 1.27 | | 0.74 | → | 1.27 | → | 2.36 | → | 0.74 | → | 1.27 | → | 0.76 |
| | Space* | 12.34 | → | | → | | → | | → | | → | | → | |

*Center to Center

*Minimum





BREL INTERNATIONAL COMPONENTS

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| | | | | | | | | | | |
|-------------------|----------------|---------|---------|---------|----------------|---------|------------------|----------------|-------------------|------------|
| | | | | | | | | | | |
| 1.50MHz to 200MHz | 2MHz to 200MHz | | | | 2MHz to 300MHz | | 6MHz to 22.12MHz | 6MHz to 300MHz | 3.5MHz to 20.0MHz | 32.768 KHz |
| HC-32/U | HC-18/U | HC-49/U | HC-25/U | HC-50/U | HC-42/U | HC-43/U | UM-1 | UM-2 | HC-49/S | TP-38 |
| ✓ | ✓ | | ✓ | | | | ✓ | | | |
| | | ✓ | | ✓ | | | | ✓ | ✓ | |

Nominal Dimensions in mm

| | | | | | | | | | | |
|-------|-------|--|------|--|-------|------|-------|------|-------|-------|
| 16.26 | 13.46 | | | | | | 8.00 | | 5.08 | 7.87 |
| 14.40 | 11.05 | | | | 11.05 | | 7.80 | 9.40 | 11.05 | 2.99 |
| 6.02 | 4.64 | | | | 4.64 | | 3.10 | 3.50 | 4.65 | n/a |
| 6.04 | 20.00 | | 6.04 | | | 38.1 | 12.07 | 12.7 | 20.00 | 10.41 |
| 1.01 | 0.43 | | 1.01 | | | 0.43 | 0.35 | 0.40 | 0.43 | 0.30 |
| 6.98 | 4.88 | | | | | | 3.75 | 4.88 | 4.88 | 1.09 |