

## Elliptical Arc

Modified by Jason Howie on 8-Oct-2016

Parent page: [Schematic Objects](#)



A placed Elliptical Arc.

## Summary

An elliptical arc is a non-electrical drawing primitive. It is essentially an open circular or elliptical curve that can be placed on a schematic sheet.

## Availability

Elliptical arcs are available for placement in both Schematic and Schematic Library Editors:

- *Schematic Editor* - click **Home** | **Graphical Elements** |  **Elliptical Arc** from the main menus.
- *Schematic Library Editor* - click **Home** | **Place** |  **Elliptical Arc** from the main menus.

## Placement

After launching the command, the cursor will change to a cross-hair and you will enter elliptical arc placement mode. Placement is made by performing the following sequence of actions:

1. Click or press **Enter** to anchor the center point of the arc.
2. Move the cursor to adjust the X radius of the arc, then click or press **Enter** to set it.
3. Move the cursor to adjust the Y radius of the arc, then click or press **Enter** to set it.
4. Move the cursor to adjust the first end point of the arc, then click or press **Enter** to anchor it.
5. Move the cursor to change the position of the arc's other end point, then click or press **Enter** to anchor it and complete placement of the arc.
6. Continue placing further elliptical arcs, or right-click or press **Esc** to exit placement mode.

Additional actions that can be performed during placement - while the arc is still floating on the cursor, and before the center point is anchored - are:

- Press the **Tab** key to access an associated properties dialog, from where properties for the arc can be changed on-the-fly.

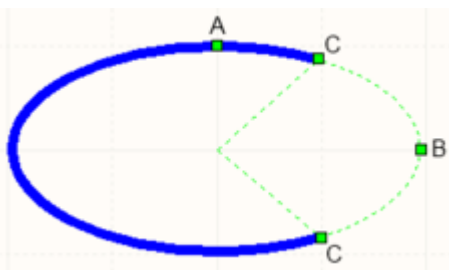
- Press the **Alt** key to constrain the direction of movement to the horizontal or vertical axis, depending on the initial direction of movement.
- Press the **Spacebar** to rotate the arc anti-clockwise or **Shift+Spacebar** for clockwise rotation. Rotation is in steps of 90°.
- Press the **X** or **Y** keys to mirror the arc along the X-axis or Y-axis respectively.

While attributes can be modified during placement (**Tab** to bring up associated properties dialog), bear in mind that these will become the default settings for further placement.

## Graphical Editing

This method of editing allows you to select a placed elliptical arc object directly in the workspace and change its size, shape or location, graphically.

When an elliptical arc object is selected, the following editing handles are available:



A selected Elliptical Arc.

- Click and drag **A** to change the vertical radius.
- Click and drag **B** to change the horizontal radius.
- Click and drag **C** to adjust the end points.
- Click anywhere on the elliptical arc – away from editing handles – and drag to reposition it. While dragging, the elliptical arc can be rotated (**Spacebar/Shift+Spacebar**) or mirrored (**X** or **Y** keys to mirror along the X-axis or Y-axis respectively).

An object that has its **Locked** property enabled cannot be selected or graphically edited. Double click on the locked object directly and disable the **Locked** property, to graphically edit the object.

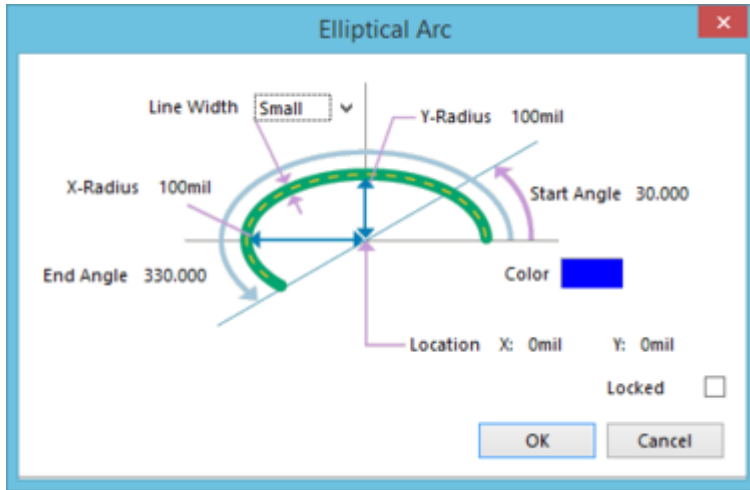
## Non-Graphical Editing

The following methods of non-graphical editing are available:

### Via an Associated Properties Dialog

Dialog page: [Elliptical Arc](#)

This method of editing uses the *Elliptical Arc* dialog to modify the properties of an elliptical arc object.



The *Elliptical Arc* dialog.

The dialog can be accessed during placement by pressing the **Tab** key.

After placement, the dialog can be accessed in one of the following ways:

- Double-clicking on the placed elliptical arc object.
- Placing the cursor over the elliptical arc object, right-clicking and choosing **Properties** from the context menu.

## Via an Inspector Panel

Panel pages: [SCH Inspector](#), [SCHLIB Inspector](#)

An *Inspector* panel enables the designer to interrogate and edit the properties of one or more design objects in the active document.

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