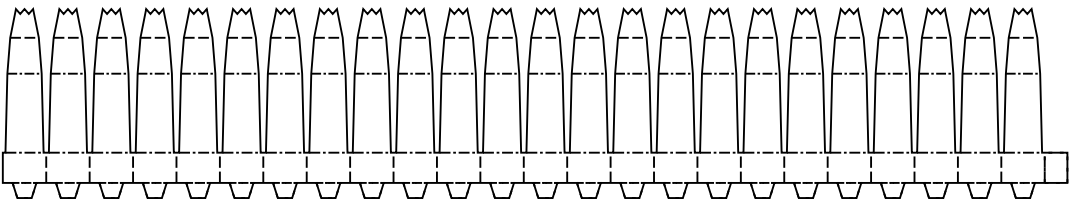


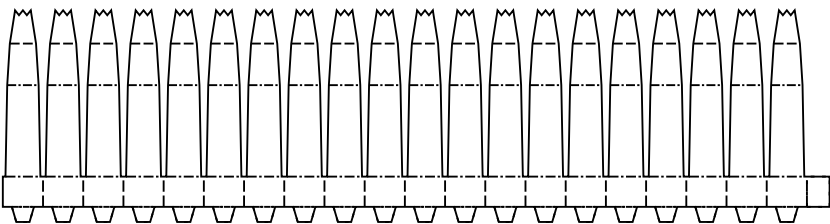
Ruffled Marigold

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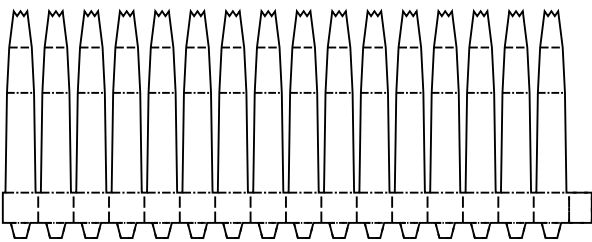
M1 | cut 1
140.84 x 25.00 mm



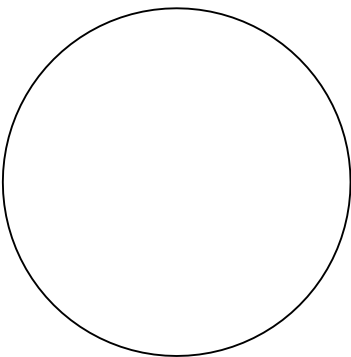
M2 | cut 1
109.38 x 28.00 mm



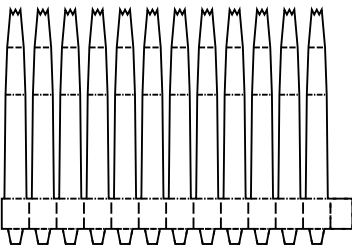
M3 | cut 1
77.91 x 30.00 mm



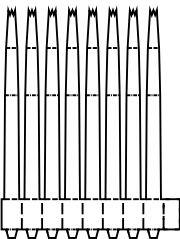
B1 | cut 1
46.00 x 46.00 mm



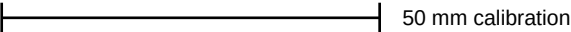
M4 | cut 1
46.38 x 31.00 mm



M5 | cut 1
23.57 x 30.13 mm



Solid: cut | Dashed: valley | Dash-dot: mountain | Dotted: glue



Print at 100% / Actual size. Do not fit to page. Original paper craft template.

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Finished size: Approximately 74 x 74 x 28 mm

Materials: 80-100 gsm orange paper (five sheets); 160-200 gsm green card (one sheet); Fine scissors or craft knife and cutting mat; Blunt scoring tool and ruler; Fine-tip PVA glue; Tweezers

Original folded-band construction: 5 connected fringe strips + 1 backing disk; 80 fringes total.

All shaped triangles preserve their flat edge lengths. Polygon belts and stepped ruffles are deliberate stylizations of a marigold, not smooth compound curves.

Fold directions are read from the printed outside face. The uppermost zone turns back inward relative to the preceding zone, producing a ruffled edge.

Zero-thickness preview: seam laps coincide with the first panel; real glue and paper thickness change spacing. The 0.2 mm backing allowance is illustrative.

Narrowest fringe roots are about 1.98 mm; fine cutting and tweezers are needed. No stem, wire, concealed core or extra cuts are required.

Digital checks do not establish collision-free assembly or springback. Screen review and physical printing, cutting, folding and assembly remain pending.

Part inventory (cut each instance once):

B1: Backing disk diameter 46 mm

M1: 24-fringe band; lap 3.00 mm

M2: 20-fringe band; lap 3.00 mm

M3: 16-fringe band; lap 3.00 mm

M4: 12-fringe band; lap 2.90 mm

M5: 8-fringe band; lap 2.14 mm

1. Cut and prepare the backing [B1]: Print at 100%; verify the 50 mm ruler. Cut B1 (46 mm diameter). Mark its centre lightly. Keep it flat, colored face up. Use 80-100 gsm orange paper for the bands and 160-200 gsm green card for B1.

2. Cut and fold M1 [M1]: Cut the complete connected strip including 24 scalloped fringes, the lower feet and the final 3.00 mm seam tab. Remove the open notches; do not cut across the continuous 4 mm belt. View the printed side as the outside of the ring. Valley-fold vertical belt lines by 15.0 degrees to make a regular 24-sided ring with 5.74 mm sides. Fold the 2.00 mm feet inward 90 degrees (mountain). The first fringe section leans 55 degrees outward from vertical; fold the next hinge 35 degrees farther outward (mountain), then the last hinge 55 degrees back inward (valley). Do not curl or stretch. The two upper hinges are 10.45 and 15.20 mm above the fringe root in the flat template.

3. Close and mount M1 [M1, B1]: Glue the final 3.00 x 4 mm tab behind the first belt panel, aligning both bottom edges and keeping glue off the fringes. Hold until set. Centre this ring on B1: opposite polygon corners measure 44.0 mm apart. Keep all feet flat on B1 and glue their undersides; belt bottom is 0.2 mm above the backing in the preview. Work from M1 outside to M5 inside, gently lifting the existing fringes for access. Rotate the ring until its fringes cover nearby gaps; the nominal mesh staggers the polygon corners. Let each ring set before adding the next. Do not glue the free fringe tips together.

4. Cut and fold M2 [M2]: Cut the complete connected strip including 20 scalloped fringes, the lower feet and the final 3.00 mm seam tab. Remove the open notches; do not cut across the continuous 4 mm belt. View the printed side as the outside of the ring. Valley-fold vertical belt lines by 18.0 degrees to make a regular 20-sided ring with 5.32 mm sides. Fold the 2.00 mm feet inward 90 degrees (mountain). The first fringe section leans 40 degrees outward from vertical; fold the next hinge 35 degrees farther outward (mountain),

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then the last hinge 55 degrees back inward (valley). Do not curl or stretch. The two upper hinges are 12.10 and 17.60 mm above the fringe root in the flat template.

5. Close and mount M2 [M2, B1]: Glue the final 3.00 x 4 mm tab behind the first belt panel, aligning both bottom edges and keeping glue off the fringes. Hold until set. Centre this ring on B1: opposite polygon corners measure 34.0 mm apart. Keep all feet flat on B1 and glue their undersides; belt bottom is 0.2 mm above the backing in the preview. Work from M1 outside to M5 inside, gently lifting the existing fringes for access. Rotate the ring until its fringes cover nearby gaps; the nominal mesh staggers the polygon corners. Let each ring set before adding the next. Do not glue the free fringe tips together.

6. Cut and fold M3 [M3]: Cut the complete connected strip including 16 scalloped fringes, the lower feet and the final 3.00 mm seam tab. Remove the open notches; do not cut across the continuous 4 mm belt. View the printed side as the outside of the ring. Valley-fold vertical belt lines by 22.5 degrees to make a regular 16-sided ring with 4.68 mm sides. Fold the 2.00 mm feet inward 90 degrees (mountain). The first fringe section leans 25 degrees outward from vertical; fold the next hinge 35 degrees farther outward (mountain), then the last hinge 55 degrees back inward (valley). Do not curl or stretch. The two upper hinges are 13.20 and 19.20 mm above the fringe root in the flat template.

7. Close and mount M3 [M3, B1]: Glue the final 3.00 x 4 mm tab behind the first belt panel, aligning both bottom edges and keeping glue off the fringes. Hold until set. Centre this ring on B1: opposite polygon corners measure 24.0 mm apart. Keep all feet flat on B1 and glue their undersides; belt bottom is 0.2 mm above the backing in the preview. Work from M1 outside to M5 inside, gently lifting the existing fringes for access. Rotate the ring until its fringes cover nearby gaps; the nominal mesh staggers the polygon corners. Let each ring set before adding the next. Do not glue the free fringe tips together.

8. Cut and fold M4 [M4]: Cut the complete connected strip including 12 scalloped fringes, the lower feet and the final 2.90 mm seam tab. Remove the open notches; do not cut across the continuous 4 mm belt. View the printed side as the outside of the ring. Valley-fold vertical belt lines by 30.0 degrees to make a regular 12-sided ring with 3.62 mm sides. Fold the 2.00 mm feet inward 90 degrees (mountain). The first fringe section leans 10 degrees outward from vertical; fold the next hinge 35 degrees farther outward (mountain), then the last hinge 55 degrees back inward (valley). Do not curl or stretch. The two upper hinges are 13.75 and 20.00 mm above the fringe root in the flat template.

9. Close and mount M4 [M4, B1]: Glue the final 2.90 x 4 mm tab behind the first belt panel, aligning both bottom edges and keeping glue off the fringes. Hold until set. Centre this ring on B1: opposite polygon corners measure 14.0 mm apart. Keep all feet flat on B1 and glue their undersides; belt bottom is 0.2 mm above the backing in the preview. Work from M1 outside to M5 inside, gently lifting the existing fringes for access. Rotate the ring until its fringes cover nearby gaps; the nominal mesh staggers the polygon corners. Let each ring set before adding the next. Do not glue the free fringe tips together.

10. Cut and fold M5 [M5]: Cut the complete connected strip including 8 scalloped fringes, the lower feet and the final 2.14 mm seam tab. Remove the open notches; do not cut across the continuous 4 mm belt. View the printed side as the outside of the ring. Valley-fold vertical belt lines by 45.0 degrees to make a regular 8-sided ring with 2.68 mm sides. Fold the 1.13 mm feet inward 90 degrees (mountain). The first fringe section leans 10 degrees inward from vertical; fold the next hinge 35 degrees farther outward (mountain), then the last hinge 55 degrees back inward (valley). Do not curl or stretch. The two upper hinges are 13.75 and 20.00 mm above the fringe root in the flat template.

11. Close and mount M5 [M5, B1]: Glue the final 2.14 x 4 mm tab behind the first belt panel, aligning both bottom edges and keeping glue off the fringes. Hold until set. Centre this ring on B1: opposite polygon corners measure 7.0 mm apart. Keep all feet flat on B1 and glue their undersides; belt bottom is 0.2 mm above the backing in the preview. Work from M1 outside to M5 inside, gently lifting the existing fringes for access. Rotate the ring until its fringes cover nearby gaps; the nominal mesh staggers the polygon corners. Let each ring set before adding the next. Do not glue the free fringe tips together.