

GCPW Transmission Line

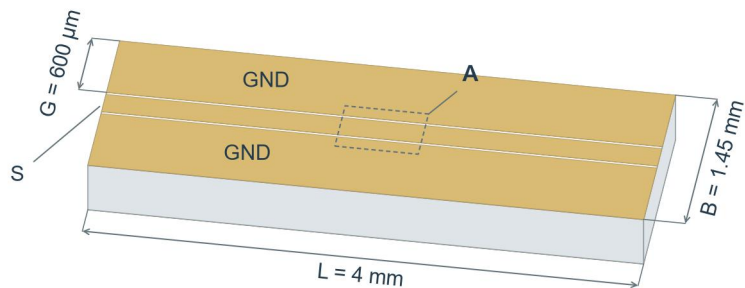
GCPW-200Q

0–40 GHz | 50 Ω reference

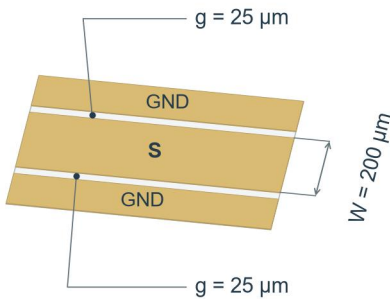
Grounded coplanar waveguide on fused silica, with an Au signal conductor, coplanar grounds and a backside ground plane.

LAYOUT & DIMENSIONS

3D STRUCTURE



SURFACE DETAIL A

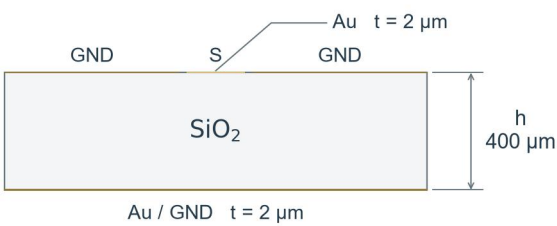


Outline (L × B) 4 × 1.45 mm

MATERIALS & SIMULATION CONDITIONS

Parameter	Value	Units
Substrate	Fused silica	—
Substrate thickness h	400	μm
Signal width W	200	μm
Coplanar gap g	25	μm
Top / back metal	Au / Au	—
Metal thickness t	2	μm
Reference impedance	50	Ω

STACK SECTION



S11 ELECTRICAL CHARACTERISTICS (CST)

Frequency (GHz)	0–5	5–10	10–20	20–40	0–40
S11, max. (dB)	-40.29	-34.13	-33.00	-29.57	-29.57
Frequency at max. (GHz)	5.000	10.000	13.080	36.200	36.200

S11 FREQUENCY RESPONSE

