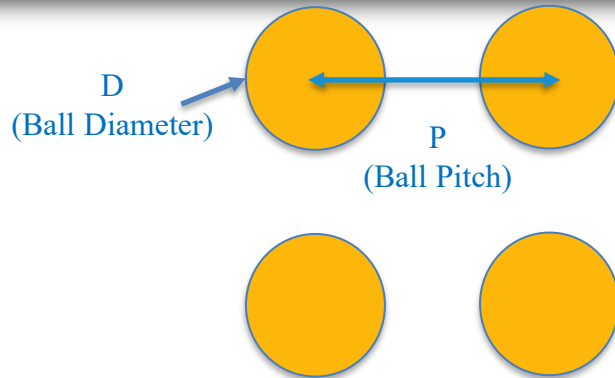


Probe-Pitch Selection (D-Probe)



D-Probe Part Number:

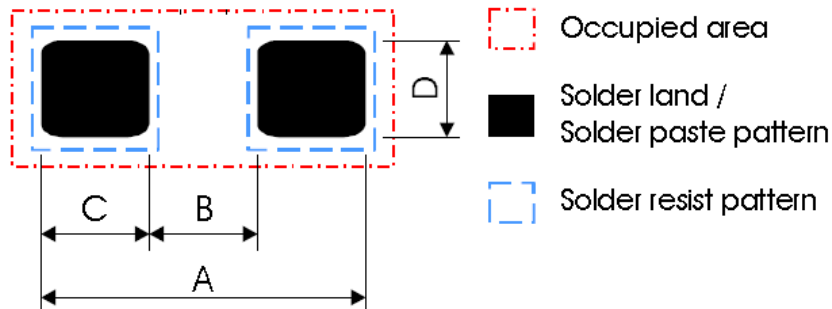
- **DP-SS-201504** – 20 GHz, 0.4 mm/16 mil pitch
- **DP-SS-201505** – 20 GHz, 0.5 mm/20 mil pitch
- **DP-SS-201508** – 20 GHz, 0.8 mm/32 mil pitch
- **DP-SS-201510** – 20 GHz, 1.0 mm/40 mil pitch
- **DP-SS-201512** – 20 GHz, 1.2 mm/48 mil pitch
- **DP-SS-401503** – 40 GHz, 0.3 mm/12 mil pitch
- **DP-SS-401504** – 40 GHz, 0.4 mm/16 mil pitch
- **DP-SS-401505** – 40 GHz, 0.5 mm/20 mil pitch

Recommendation: $P - D + 0.2 \text{ mm} < \text{Probe Pitch} < P + D - 0.2 \text{ mm}$

P (Ball Pitch)	D (Ball Diameter)	Recommended Probe Pitch (in mm)
1.0	0.4	0.8 mm < Probe Pitch < 1.2 mm
0.8	0.4	0.6 mm < Probe Pitch < 1.0 mm
0.6	0.28	0.52 mm < Probe Pitch < 0.72 mm
0.5	0.28	0.42 mm < Probe Pitch < 0.58 mm
0.4	0.28	0.32 mm < Probe Pitch < 0.48 mm
0.35	0.22	0.23 mm < Probe Pitch < 0.37 mm

- The above BGA footprints are for reference only.
- Please use the specific BGA footprints in your PCB layout.

Probe-Pitch Selection (S-Probe)



S-Probe Part Number:

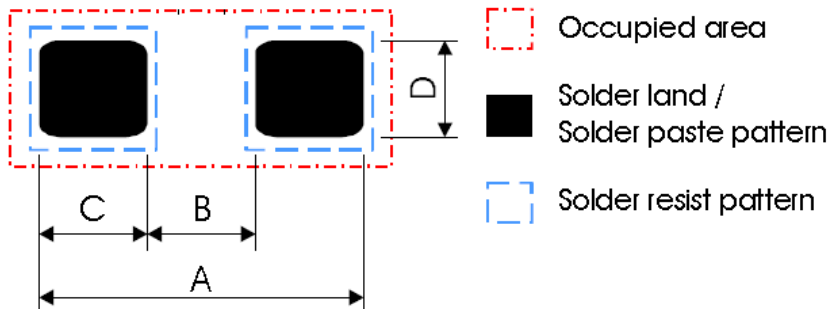
- SP-GR-2015025 – 20 GHz, 0.25 mm/10 mil pitch
- SP-GR-201504 – 20 GHz, 0.4 mm/16 mil pitch
- SP-GR-201505 – 20 GHz, 0.5 mm/20 mil pitch
- SP-GR-181508 – 18 GHz, 0.8 mm/32 mil pitch
- SP-GR-181510 – 18 GHz, 1.0 mm/40 mil pitch
- SP-GR-161512 – 16 GHz, 1.2 mm/48 mil pitch
- SP-GR-161514 – 16 GHz, 1.4 mm/56 mil pitch
- SP-GR-161516 – 16 GHz, 1.6 mm/64 mil pitch
- SP-GR-3015025 – 30 GHz, 0.25 mm/10 mil pitch
- SP-GR-301504 – 30 GHz, 0.4 mm/16 mil pitch
- SP-GR-301505 – 30 GHz, 0.5 mm/20 mil pitch

Recommendation: $B + 0.2 \text{ mm} < \text{Probe Pitch} < A - 0.2 \text{ mm}$

Size	Probe Pitch	A	B	C	D	Component Size
01005	SP-GR-2015025	0.48	0.12	0.18	0.20	0.4 x 0.2
0201	SP-GR-201505	0.75	0.30	0.30	0.30	0.6 x 0.3
0402	0.7mm < Pitch < 1.3mm	1.50	0.50	0.50	0.60	1.0 x 0.5
0603	0.8mm < Pitch < 1.9mm	2.10	0.60	0.90	0.90	1.6 x 0.8
0805	1.2mm < Pitch < 2.8mm	3.0	1.0	1.0	1.25	2.0 x 1.25

- The above component footprints are for reference only.
- Please use the specific component footprints in your PCB layout.

Probe-Pitch Selection (R-Probe)



R-Probe Part Number:

- **RP-GR-181502** - 18 GHz, 0.2 mm/ 8 mil pitch
- **RP-GR-181503** - 18 GHz, 0.3 mm/ 12 mil pitch
- **RP-GR-151504** - 15 GHz, 0.4 mm/ 16 mil pitch
- **RP-GR-151505** - 15 GHz, 0.5 mm/ 20 mil pitch
- **RP-GR-121508** - 12 GHz, 0.8 mm/ 32 mil pitch
- **RP-GR-121510** - 12 GHz, 1.0 mm/ 40 mil pitch

Recommendation: $B + 0.2 \text{ mm} < \text{Probe Pitch} < A - 0.2 \text{ mm}$

Size	Probe Pitch	A	B	C	D	Component Size
01005	RP-GR-181503	0.48	0.12	0.18	0.20	0.4 x 0.2
0201	RP-GR-151505	0.75	0.30	0.30	0.30	0.6 x 0.3
0402	0.7mm < Pitch < 1.3mm	1.50	0.50	0.50	0.60	1.0 x 0.5
0603	0.8mm < Pitch < 1.9mm	2.10	0.60	0.90	0.90	1.6 x 0.8
0805	1.2mm < Pitch < 2.8mm	3.0	1.0	1.0	1.25	2.0 x 1.25

- The above component footprints are for reference only.
- Please use the specific component footprints in your PCB layout.