

Patch Antenna Elements



Features

- Temperature stable (± 5 ppm/ $^{\circ}\text{C}$)
- Temperature range (-40°C to $+105^{\circ}\text{C}$)
- Low return loss
- Uniform dielectric constant
- Wide frequency range (1570 MHz to 2450 MHz)
- Offset single-point feeding method
- Design flexibility (consult factory)
 - 50mm x 50mm x 3mm
 - 25mm x 25mm x 4mm
 - 18mm x 18mm x 4mm
 - 16mm diameter x 6mm
 - 13mm x 13mm x 3mm
- Custom designs available
- Silver plated electrode and probe
- Surface mount
- 50 Ohm input impedance standard

Applications

- Vehicle navigation
- GPS
- Aviation
- Marine equipment
- Surveying equipment
- Bluetooth
- Wireless LANs

Part Numbering System

Example: **PA25-1575-008SA**

PA	25	-	1575	-	008	S	A
Class	Size		Center Frequency (MHz)		Bandwidth (MHz)	Configuration	Series
Patch Antennas	2 digits in mm		Use 4 digits		Use 3 digits	S = Square C = Circular	Assigned by factory

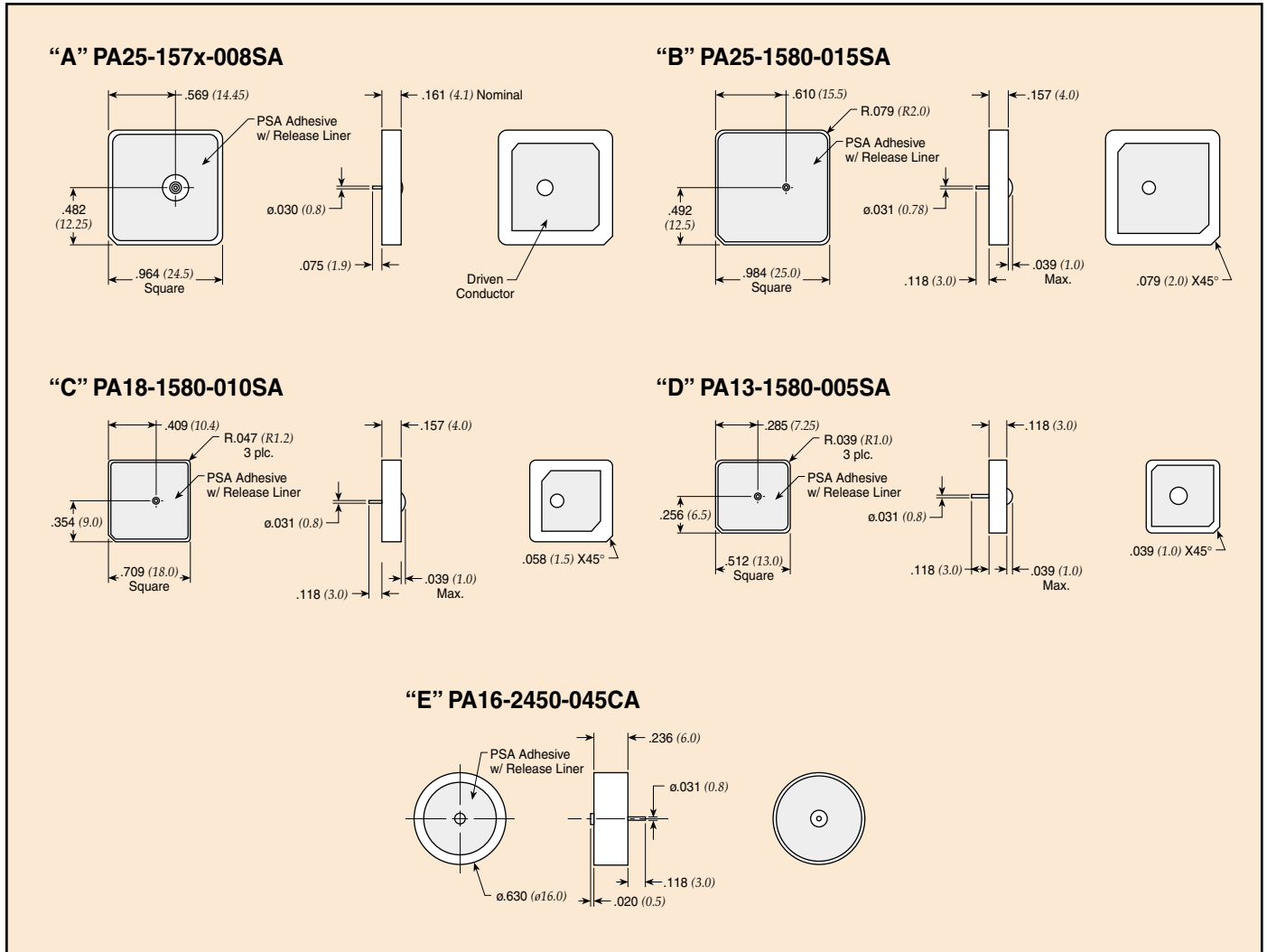
Standard Parts List

Application	SCI Part Number	Size (mm)	Thickness (mm)	Center Frequency (MHz)	Bandwidth (MHz)	Return Loss @ f_0 (dB)	Gain @ f_0 (dBic Min.)	Testing Ground Plane (mm)	Footprint
GPS	PA25-1575-008SA	25 x 25	4	1575.04	8	-14	2.5	35 x 35	A
GPS	PA25-1579-008SA	25 x 25	4	1579.01	8	-14	2.5	35 x 35	A
GPS	PA25-1570-008SA	25 x 25	4	1570.01	8	-14	2.5	35 x 35	A
GPS	PA25-1580-015SA	25 x 25	4	1580.00	15	-15	5.0	70 x 70	B
GPS	PA18-1580-010SA	18 x 18	4	1580.00	10	-15	3.0	50 x 50	C
GPS	PA13-1580-005SA	13 x 13	3	1580.00	5	-15	0.0	30 x 30	D
W-LAN	PA16-2450-045CA	16 dia.	6	2450.00	45	-15	2.15	50 x 76	E

Note: Consult the factory for custom patch antenna designs.

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Dimensions and Configurations (Reference Only)



Note: See sales drawing for detailed specifications on each part.

Dimensions in inches (mm)

