

## DESCRIPTION

Lingsen SOT-89 package is a lead frame based plastic encapsulated package with lead count 3, 5 and it is ideal for low cost packaging solutions. Lingsen is one of the largest providers of SOT in the world.

The package meets JEDEC Moisture Sensitivity Level 3 standard that ensures reliability in its functions.

# SOT89

Small Outline Transistor Package (SOT89)

	SPECIFICATIONS				
Die Thickness	635um (25mils) maximum				
Gold Wire	99.99% Au				
<ul> <li>Mold Compound EME G600 (Green)</li> </ul>					
	EME 6300H (Non-Green)				
Plating	Matte Tin				
Marking	Laser Mark				
Packing	Tape & Reel / Shielding Bag				

#### APPLICATIONS

- Wireless / RF
- Analog devices

 Ultra thin hand-held portable products such as cell phones, data storage systems, notebook computers and pagers

#### RELIABILITY

MSL Level: MSL 3 @ 240°C for Sn/Pb MSL Level: MSL 3 @ 260°C for Pb-Free & Green Pressure Cook Test: 168hrs (121°C, 100%RH, 2atm) Temperature Cycling: 500cycles (-65°C/+150°C) HAST: 100hrs (130°C, 85%RH) Temperature & Humidity Test: 1,000hrs (85°C, 85%RH) High Temperature Storage: 1,000hrs (150°C)

### FEATURES

- Available pin count 3L & 5L
- Lead pitch 1.5mm
- JEDEC standard compliant
- JEDEC MSL level 3 qualified for all pin counts

PACKAGE AVAILABILITY								
Package	Body Size (mm)	Pad Size (mm)	Die Size (mm)	Thermal Performance $  heta$ ja (°C/W)				
SOT-89 3L	4.49x2.48	2x1.6	1.21x1.21	39.94				

Note: Simulated with JEDEC Standard 4-layer test board under still air condition, ambient temperature 45°C



ELECTRICAL PERFORMANCE									
Package	Body Size (mm)	Pad Size (mm)	Frequency (MHz)	Self Inductance (nH)	Self Capacitance (pF)	Resistance (mohm)			
SOT-89 3L	4.49x2.48	2x1.6	100	0.65~3.95	0.705~1.733	67.2~95.4			

Note: Results are simulated. Data is available through 2.5GHz.



