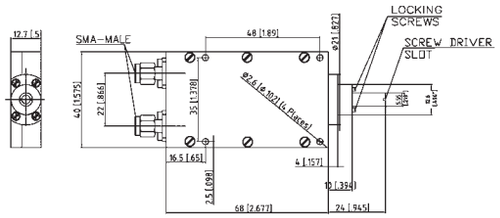
- Application: System Use:
"Set the electrical length and in line locking"

- Precision Phase Adjusters, DC to 2.0, 12.0 and 18.0 GHz.
- Small housing, flat pack configuration.
- Housing Finish: Iridited. On special request, painting can be supplied.
- Four mounting locations are provided.
- Impedance of 50 Ohms is maintained over the full adjustment range.
- Positive resettable locking mechanism.
- Smooth continuous phase adjustment.
- Internal Trombone Line, no external physical length change.
- Rugged construction: housing is made from aluminum, connector outer conductors from stainless steel.
- Bead captivated center contacts.
- Spring fingers and center contacts are made from beryllium copper, heat treated and gold plated per ASTM-B488, Type III, Code C

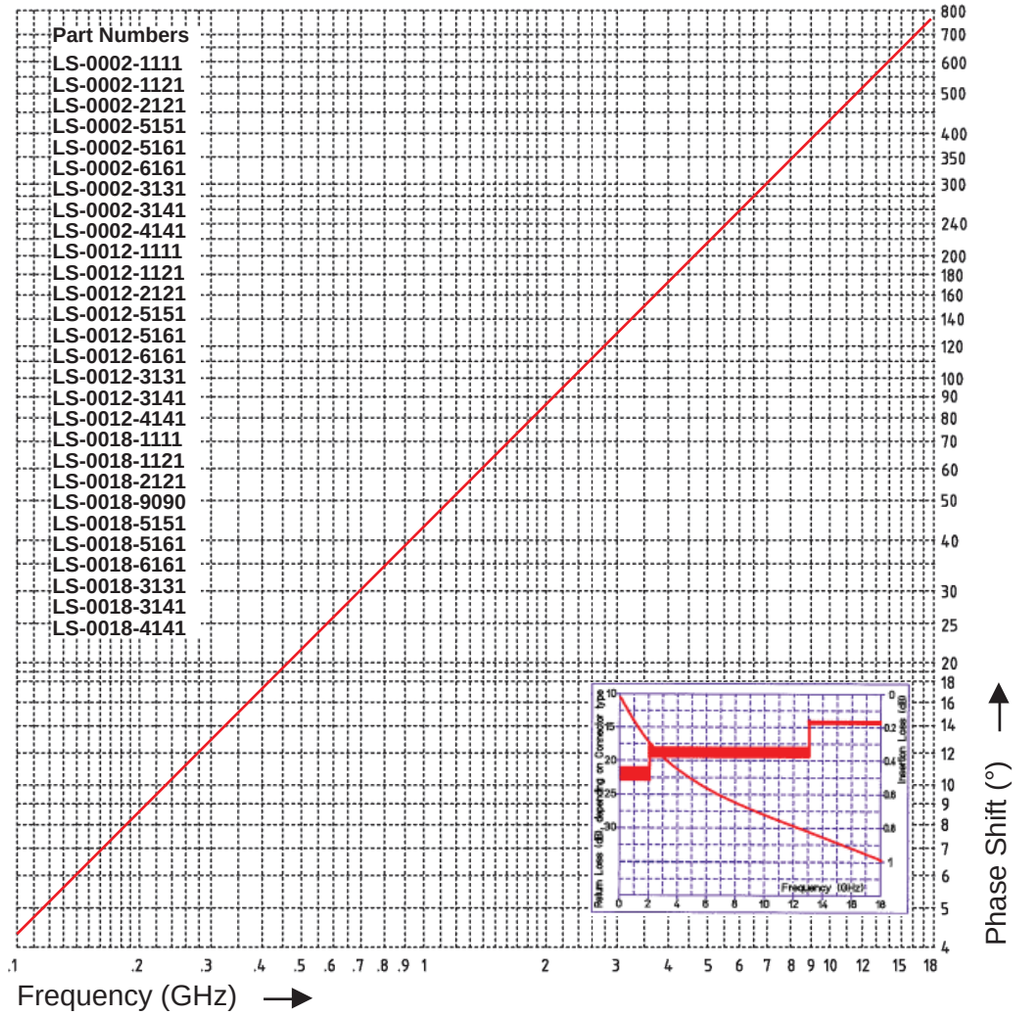


In line Locking

- Different connector configurations available, such as 7mm, SMA, N, and TNC. For other connector configurations, please consult the factory.
- Operating temperature range: -54°C to +115°C.

Part Number	Frequency	VSWR max.	R.F. Insertion Loss	Phase Shift	Connectors	Outline Dimensions		
						Length	Width	Height
LS-IL02-1111	DC to 2.0 GHz	1.15:1	0.3 dB max @ 2.0 GHz	85° min. @ 2.0 GHz	SMA-M / SMA-M	68 mm 2.677"	40 mm 1.575"	12.7 mm .500"
LS-IL02-1121					SMA-M / SMA-F			
LS-IL02-2121					SMA-F / SMA-F			
LS-IL02-5151		1.20:1	0.3 dB max @ 2.0 GHz	85° min. @ 2.0 GHz	N-M / N-M	68 mm 2.677"	42 mm 1.654"	22 mm .866"
LS-IL02-5161					N-M / N-F			
LS-IL02-6161					N-F / N-F			
LS-IL02-3131					TNC-M / TNC-M			
LS-IL02-3141					TNC-M / TNC-F			
LS-IL02-4141					TNC-F / TNC-F			
LS-IL12-1111	DC to 12.0 GHz	1.25:1	0.8 dB max @ 12.0 GHz	520° min. @ 12.0 GHz	SMA-M / SMA-M	68 mm 2.677"	40 mm 1.575"	12.7 mm .500"
LS-IL12-1121					SMA-M / SMA-F			
LS-IL12-2121					SMA-F / SMA-F			
LS-IL12-5151		1.30:1	0.8 dB max @ 12.0 GHz	520° min. @ 12.0 GHz	N-M / N-M	68 mm 2.677"	42 mm 1.654"	22 mm .866"
LS-IL12-5161					N-M / N-F			
LS-IL12-6161					N-F / N-F			
LS-IL12-3131					TNC-M / TNC-M			
LS-IL12-3141					TNC-M / TNC-F			
LS-IL12-4141					TNC-F / TNC-F			
LS-IL18-1111	DC to 18.0 GHz	1.50:1	1.0 dB max @ 18.0 GHz	770° min. @ 18.0 GHz	SMA-M / SMA-M	68 mm 2.677"	40 mm 1.575"	12.7 mm .500"
LS-IL18-1121					SMA-M / SMA-F			
LS-IL18-2121					SMA-F / SMA-F			
LS-IL18-9090					7 mm / 7 mm	68 mm	70 mm	30 mm
LS-IL18-5151		1.50:1	1.0 dB max @ 18.0 GHz	770° min. @ 18.0 GHz	N-M / N-M	68 mm 2.677"	42 mm 1.654"	22 mm .866"
LS-IL18-5161					N-M / N-F			
LS-IL18-6161					N-F / N-F			
LS-IL18-3131					TNC-M / TNC-M			
LS-IL18-3141					TNC-M / TNC-F			
LS-IL18-4141					TNC-F / TNC-F			

Adjusting Phase indd.2014



Part Number		LS-0002 - xxxx	LS-0012 - xxxx	LS-0018 - xxxx
		xxxx: connector configuration, for details please refer to the table on the left		
Frequency Range (GHz)		DC - 2.0	DC - 12.0	DC - 18.0
Min. Phase Shift (°)		85	520	770
Nominal Phase Shift Deg. / GHz / Shaft Turn		1.15	1.15	1.15
Max. number of Turns		37	37	37
Time Delay (psec)	min.	393	406	406
	max.	516	530	530

Adjusting Phase indd.2014