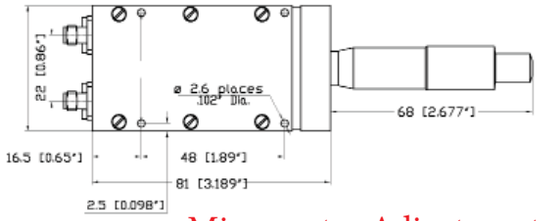
- **Application: Test Set "Set the electrical length by micrometer adjustment".**

- 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.
- 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

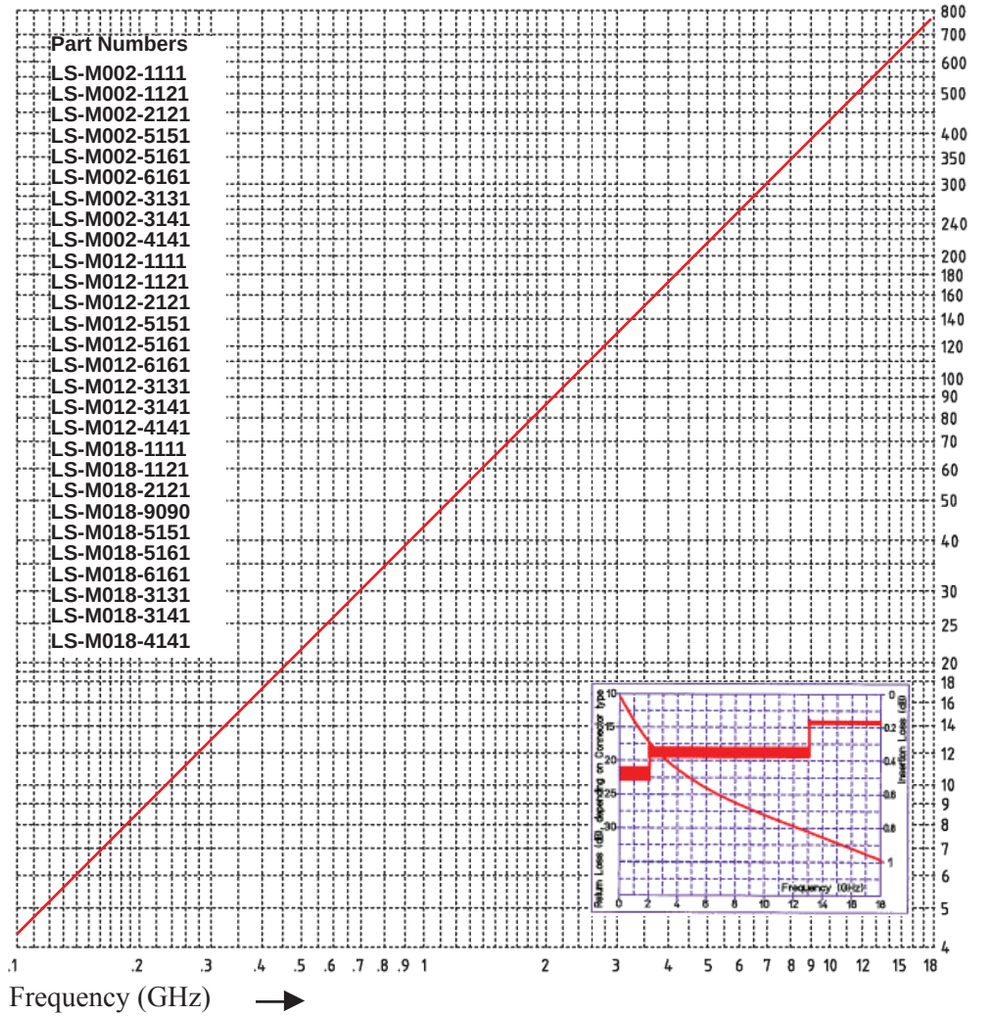


Micrometer Adjustment

- 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-M002-1111	DC to 2.0 GHz	1.15:1	0.3 dB max @ 2.0 GHz	85° min. @ 2.0 GHz	SMA-M / SMA-M	81 mm 3.189"	40 mm 1.575"	20 mm .787"
LS-M002-1121					SMA-M / SMA-F			
LS-M002-2121					SMA-F / SMA-F			
LS-M002-5151		1.20:1	0.3 dB max @ 2.0 GHz	85° min. @ 2.0 GHz	N-M / N-M	81 mm 3.189"	42 mm 1.654"	22 mm .866"
LS-M002-5161					N-M / N-F			
LS-M002-6161					N-F / N-F			
LS-M002-3131					TNC-M / TNC-M			
LS-M002-3141					TNC-M / TNC-F			
LS-M002-4141					TNC-F / TNC-F			
LS-M012-1111	DC to 12.0 GHz	1.25:1	0.8 dB max @ 12.0 GHz	520° min. @ 12.0 GHz	SMA-M / SMA-M	81 mm 3.189"	40 mm 1.575"	20 mm .787"
LS-M012-1121					SMA-M / SMA-F			
LS-M012-2121					SMA-F / SMA-F			
LS-M012-5151		1.30:1	0.8 dB max @ 12.0 GHz	520° min. @ 12.0 GHz	N-M / N-M	81 mm 3.189"	42 mm 1.654"	22 mm .866"
LS-M012-5161					N-M / N-F			
LS-M012-6161					N-F / N-F			
LS-M012-3131					TNC-M / TNC-M			
LS-M012-3141					TNC-M / TNC-F			
LS-M012-4141					TNC-F / TNC-F			
LS-M018-1111	DC to 18.0 GHz	1.50:1	1.0 dB max @ 18.0 GHz	770° min. @ 18.0 GHz	SMA-M / SMA-M	81 mm 3.189"	40 mm 1.575"	20 mm .787"
LS-M018-1121					SMA-M / SMA-F			
LS-M018-2121					SMA-F / SMA-F			
LS-M018-9090					7 mm / 7 mm	81 mm	70 mm	30 mm
LS-M018-5151		1.50:1	1.0 dB max @ 18.0 GHz	770° min. @ 18.0 GHz	N-M / N-M	81 mm 3.189"	42 mm 1.654"	22 mm .866"
LS-M018-5161					N-M / N-F			
LS-M018-6161					N-F / N-F			
LS-M018-3131					TNC-M / TNC-M			
LS-M018-3141					TNC-M / TNC-F			
LS-M018-4141					TNC-F / TNC-F			

Adjusting Phase indd.2014



Part Number		LS-M002 - xxxx	LS-M012 - xxxx	LS-M018 - 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