

## Electrical / Environmental

- Meets 350  $\mu$ H OCL with 8 mA DC Bias
- Meets the required 1500 Vrms line isolation
- Standard Operating Temperature Range                    0°C to +70°C
- Extended Operating Temperature Range                    -40°C to +85°C
- RoHS Peak Solder Rating 260°C

# HS91

## 10/100Base Networking Products



### SINGLE-PORT: SMT 12-PIN



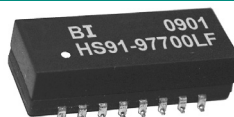
BI P/N <sup>1</sup>	Ports Supported	Configuration <sup>2</sup>		Turns Ratio <sup>3</sup>		Style	Packaging (mm)			Hi-Pot (Vrms)	
		Tx	Rx	Tx	Rx		Pitch	Length	Width		Height
HS00-99585LF <sup>4</sup>	1	T,C,S	C,T	1CT:1CT	1CT:1CT	12-pin SMT	2.01	14.81	14.50	4.88	1500
HS91-04151LF <sup>4,5</sup>	1	T,C,S	C,T	1CT:1CT	1CT:1CT	12-pin SMT	2.01	14.81	14.73	4.88	1500

### SINGLE-PORT: SMT 16-PIN PCMCIA (2 Types)



BI P/N <sup>1</sup>	Ports Supported	Configuration <sup>2</sup>		Turns Ratio <sup>3</sup>		Style	Packaging (mm)			Hi-Pot (Vrms)	
		Tx	Rx	Tx	Rx		Pitch	Length	Width		Height
HS91-01267LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin PCMCIA	1.27	11.81	11.43	2.16	1500
HS91-02571LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin PCMCIA	1.27	11.81	11.43	2.16	1500
HS00-02711LF	1	T,C	C,T	1CT:1CT	1CT:1CT	16-pin PCMCIA	1.27	12.01	11.43	2.19	1500
HS00-05014LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin PCMCIA	1.27	11.81	11.43	2.16	1500
HS00-05108LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin PCMCIA	1.27	11.81	11.43	2.16	1500
HS91-01180LF	1	T,C	C,T	1CT:1CT	1CT:1CT	16-pin PCMCIA	1.27	12.70	9.25	1.98	1500
HS00-04078LF	1	T,C	C,T	1CT:1CT	1CT:1CT	16-pin PCMCIA	1.27	12.70	9.05	1.70	1500
HS00-04148LF	1	T,C	T,C	1CT:1CT	1CT:1CT	16-pin PCMCIA	1.27	12.70	9.35	1.83	1500

### SINGLE-PORT: SMT 16-PIN (2 Types)



BI P/N <sup>1</sup>	Ports Supported	Configuration <sup>2</sup>		Turns Ratio <sup>3</sup>		Style	Packaging (mm)			Hi-Pot (Vrms)	
		Tx	Rx	Tx	Rx		Pitch	Length	Width		Height
HS00-99142LF	1	T, C	T, C	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.65	5.98	1500
HS00-99557LF	1	C, T	C, T	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.35	6.22	1500
HS00-99657LF	1	T, C	T, C	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.65	5.98	1500
HS00-00089LF	1	C, T	C, T	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.53	6.20	1500
HS00-00508LF	1	T, C	T, C	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.65	5.08	1500
HS00-01006LF	1	T, C	T, C	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.53	6.20	1500
HS00-01043LF	1	T, C	T, C	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.53	6.20	1500
HS00-03833LF	1	T, C	T, C	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.26	6.06	1500
HS91-04054LF	1	T, C	T, C	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.35	5.08	1500
HS00-04157LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.53	6.20	1500

### SINGLE-PORT: SMT 16-PIN (2 Types) (Cont'd)

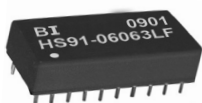
BI P/N <sup>1</sup>	Ports Supported	Configuration <sup>2</sup>		Turns Ratio <sup>3</sup>		Style	Packaging (mm)			Hi-Pot (Vrms)	
		Tx	Rx	Tx	Rx		Pitch	Length	Width		Height
HS00-05065LF	1	T,C	T,C	√2CT:1CT	√2CT:1CT	16-pin SMT	1.27	12.70	9.65	5.98	1500
HS00-05066LF	1	C,T	C,T	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.35	5.97	1500
HS00-05132LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.35	5.97	1500
HS91-05137LF	1	T,C	T,C	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.53	6.20	1500
HS00-06120LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.35	6.22	1500
HS91-06128LF	1	T,C	T,C	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.53	6.20	1500
HS91-07007LF	1	T,C	T,C	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.53	6.20	1500
HS91-07008LF	1	T,C	C,T	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.53	6.20	1500
HS91-07052LF	1	T,C	T,C	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.53	6.20	1500
HS91-08031LF	1	C,T	C,T	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.53	5.08	1500
HS91-08038LF	1	T,C	T,C	1CT:1CT	1CT:1CT	16-pin SMT	1.27	12.70	9.40	5.80	1500
HS91-97700LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS91-97701LF	1	C,T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS91-98240LF	1	C,T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS91-98241LF	1	T,C	T,C	2CT:1CT	1:1:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS91-98242LF	1	T,C	T,C	√2CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS91-98243LF	1	T,C	T,C	1.25CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS91-98244LF	1	T,C	T,C	1.25CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS91-98245LF	1	T,C,S	T,C	1.25CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS91-98272LF	1	C,T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS91-98704LF	1	T,C	T,C	√2CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS00-99160LF	1	T,C	C,T	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS00-99193LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	5.97	1500
HS00-99702LF	1	T,C,S	C,T	1CT:√2CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS00-99705LF	1	C,T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS00-00014LF	1	T,C	T,C	2CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS91-00100LF	1	C,T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS91-00521LF	1	T,C,S	C,T	1CT:√2CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	5.84	1500
HS91-00525LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS00-00736LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	5.80	1500
HS00-00737LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	5.80	1500
HS91-04072LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	6.05	1500
HS00-05011LF	1	T,C	T,C	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	5.97	1500
HS00-06116LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	7.00	1500
HS00-08037LF	1	C,T,C	C,T,C	1CT:1CT	1CT:1CT	16-pin SMT	2.54	25.40	12.70	6.05	1500

### SINGLE-PORT: SMT 24-PIN



BI P/N <sup>1</sup>	Ports Supported	Configuration <sup>2</sup>		Turns Ratio <sup>3</sup>		Style	Packaging (mm)			Hi-Pot (Vrms)	
		Tx	Rx	Tx	Rx		Pitch	Length	Width		Height
HS91-02744LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	24-pin SMT	1.27	17.78	15.24	5.72	1500
HS91-03085LF	1	T,C,S	C,T	1CT:1CT	1CT:1CT	24-pin SMT	1.27	17.78	15.24	5.72	1500

### DUAL-PORT: DIP 20-PIN



BI P/N <sup>1</sup>	Ports Supported	Configuration <sup>2</sup>		Turns Ratio <sup>3</sup>		Style	Packaging (mm)			Hi-Pot (Vrms)	
		Tx	Rx	Tx	Rx		Pitch	Length	Width		Height
HS91-06063LF <sup>4</sup>	2	T,C	T,C	1CT:1CT	1CT:1CT	20-pin DIP	2.54	25.40	10.25	6.35	1500

### DUAL-PORT: SMT 24-PIN (2 Types)



BI P/N <sup>1</sup>	Ports Supported	Configuration <sup>2</sup>		Turns Ratio <sup>3</sup>		Packaging (mm)				Hi-Pot (Vrms)	
		Tx	Rx	Tx	Rx	Style	Pitch	Length	Width		Height
HS91-05172LF	2	T,C	T,C	1CT:1CT	1CT:1CT	24-pin SMT	0.99	13.77	18.80	5.72	1500
HS91-08055LF	2	T,C	T,C	1CT:1CT	1CT:1CT	24-pin SMT	0.99	13.77	18.80	5.72	1500
HS00-03118LF	2	T,C	T,C	1CT:1CT	1CT:1CT	24-pin SMT	1.00	13.08	14.99	3.68	1500

### DUAL-PORT: SMT 40-PIN



BI P/N <sup>1</sup>	Ports Supported	Configuration <sup>2</sup>		Turns Ratio <sup>3</sup>		Packaging (mm)				Hi-Pot (Vrms)	
		Tx	Rx	Tx	Rx	Style	Pitch	Length	Width		Height
HS91-98250LF	2	C,T,C,S	C,T	1CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-98251LF	2	T,C,S	C,T	1CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-98252LF	2	T,C	C,T	1CT:1	1CT:1CT	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-98253LF	2	T,C,S	C,T	1CT:1CT	1CT:1CT	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-06024LF	2	T,C,S	C,T	1CT:1CT	1CT:1CT	40-pin SMT	1.27	27.62	16.00	5.52	1500

### QUAD-PORT: SMT 40-PIN



BI P/N <sup>1</sup>	Ports Supported	Configuration <sup>2</sup>		Turns Ratio <sup>3</sup>		Packaging (mm)				Hi-Pot (Vrms)	
		Tx	Rx	Tx	Rx	Style	Pitch	Length	Width		Height
HS91-98248LF	4	T,C	C,T	1CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-98249LF	4	T,C	C,T	1CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-98254LF	4	T,C	C,T	2CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-98255LF	4	T,C	T,C	√2CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-98256LF	4	T,C	C,T	1CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-98258LF	4	T,C	C,T	1CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-98259LF	4	T,C	C,T	1CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-98645LF	4	T,C	C,T	2CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-99145LF	4	T,C	C,T	2CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS00-00520LF	4	T,C	C,T	1CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS00-00888LF	4	T,C	T,C	1CT:1CT	1CT:1CT	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS00-01276LF	4	T,C	T,C	1CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS00-05067LF	4	T,C	T,C	1CT:1CT	1CT:1CT	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-05177LF	4	T,C	C,T	1CT:1CT	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500
HS91-06141LF	4	C,T,C	C,T,C	1:1	1:1	40-pin SMT	1.27	27.62	16.00	5.52	1500

### QUAD-PORT: DIP 40-PIN



BI P/N <sup>1</sup>	Ports Supported	Configuration <sup>2</sup>		Turns Ratio <sup>3</sup>		Packaging (mm)				Hi-Pot (Vrms)	
		Tx	Rx	Tx	Rx	Style	Pitch	Length	Width		Height
HS91-07063LF <sup>4</sup>	4	C,T,C	C,T,C	1CT:1CT	1CT:1CT	40-pin DIP	1.78	37.75	7.60	10.55	1500

- Notes: (1) For Tape & Reel Packaging, add a "TR" suffix to the end of the Part Number when ordering, e.g. HS00-99657LFTR.  
 (2) IC to Cable side: C is Common Mode Choke, S is Shunt Inductor and T is Transformer.  
 (3) Turns Ratio is IC to Cable side.  
 (4) Tube Packaging only.  
 (5) Extreme Operating Temperature Range: -55°C ~ +125°C.