

Narrow Band Phase Shifter

50Ω 180° Voltage Variable 700 to 1000 MHz

JSPHS-1000+ JSPHS-1000



CASE STYLE: BK276
PRICE: \$32.95 ea. QTY (1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Input Power	20 dBm max.
Control Voltage	28V
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

IN	1
OUT	7
BIAS	4,6^
GROUND	2,3,5,8,9,10,11,12,13,14

^ pins must be connected together externally

Features

- low insertion loss, 1.4 dB typ.
- good VSWR, 1.3:1 typ.
- solder-plated J-leads for excellent solderability and strain relief
- aqueous washable

Applications

- cellular

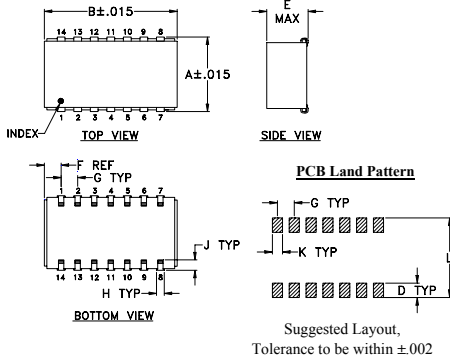
Phase Shifter Electrical Specifications

FREQUENCY (MHz)	PHASE RANGE (Degrees)	INSERTION LOSS (dB)		CONTROL VOLTAGE (V)	CONTROL BANDWIDTH (kHz)	VSWR (:1)	
		Typ.	Max.			Typ.	Max.
700-850	180	1.2	2.3	0-15	DC-50	1.2	2.6
850-1000	160	1.2	2.0	0-15	DC-50	1.2	2.0

Maximum operating power, 0 dBm

DC input resistance at Control port: 18200 ohms typ.

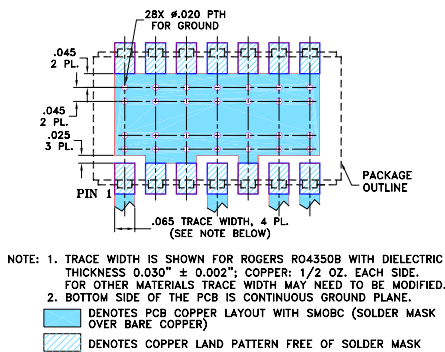
Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	J	K	L	wt grams
.450	.803	--	.100	.250	.102	.100	.047	.065	.065	.470	3.0
11.43	20.40	--	2.54	6.35	2.59	2.54	1.19	1.65	1.65	11.94	

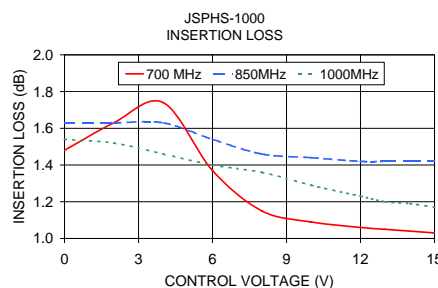
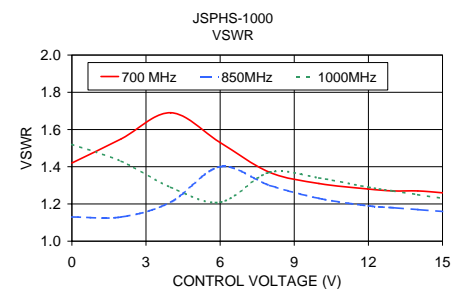
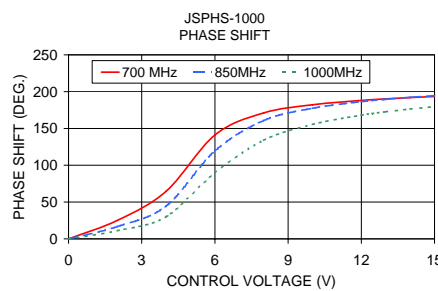
Demo Board MCL P/N: TB-122 Suggested PCB Layout (PL-030)



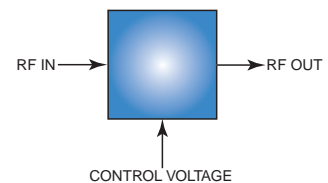
Typical Performance Data

Control Voltage (V)	Phase Shift* (Degrees)			VSWR (:1)			Insertion Loss (dB)		
	700 MHz	850 MHz	1000 MHz	700 MHz	850 MHz	1000 MHz	700 MHz	850 MHz	1000 MHz
0.00	0.00	0.00	0.00	1.42	1.13	1.52	1.48	1.63	1.54
2.00	25.08	16.78	11.21	1.55	1.13	1.43	1.63	1.63	1.52
4.00	64.66	44.54	30.16	1.69	1.21	1.29	1.74	1.63	1.46
6.00	141.20	119.49	89.61	1.53	1.40	1.21	1.37	1.54	1.40
8.00	171.07	160.75	134.12	1.37	1.30	1.37	1.15	1.46	1.36
10.00	182.16	177.41	155.54	1.31	1.23	1.34	1.09	1.44	1.29
12.00	188.09	186.53	168.05	1.28	1.19	1.29	1.06	1.42	1.23
13.00	190.18	189.72	172.58	1.27	1.18	1.27	1.05	1.42	1.20
14.00	191.91	192.37	176.43	1.27	1.17	1.25	1.04	1.42	1.19
15.00	193.41	194.57	179.67	1.26	1.16	1.23	1.03	1.42	1.17

* Normalized at control voltage = 0V



electrical schematic



For detailed performance specs & shopping online see web site

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