

Narrow Band Phase Shifter

50Ω 180° Voltage Variable 100 to 150 MHz

JSPHS-150+ JSPHS-150



CASE STYLE: BK276
PRICE: \$31.95 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	20V
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

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

^ pins must be connected together externally

Features

- low insertion loss, 1.0 dB typ.
- good VSWR, 1.3 typ.
- solder-plated J-leads for excellent solderability and strain relief
- aqueous washable

Applications

- aircraft communication
- delay for feed-forward amplifier

Phase Shifter Electrical Specifications

FREQUENCY (MHz)	PHASE RANGE (Degrees)	INSERTION LOSS (dB)		CONTROL VOLTAGE (V)	CONTROL BANDWIDTH (kHz)	VSWR (:1)	
		Typ.	Max.			Typ.	Max.
100-150	180	1.2	2.5	0-12	DC-30	1.2	1.7

Maximum operating power, 0 dBm

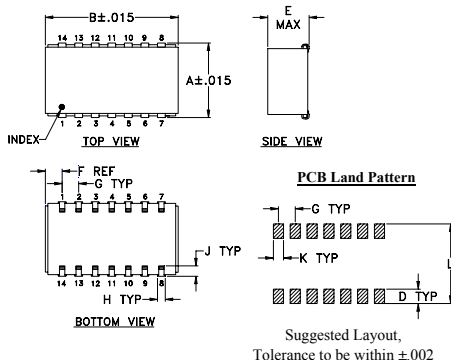
DC input resistance at Control port: 5900 ohms typ.

Typical Performance Data

Control Voltage (V)	Phase Shift* (Degrees)			VSWR (:1)			Insertion Loss (dB)		
	100 MHz	125 MHz	150 MHz	100 MHz	125 MHz	150 MHz	100 MHz	125 MHz	150 MHz
0.00	0.00	0.00	0.00	1.47	1.23	1.19	1.00	0.84	0.83
2.00	17.45	9.44	5.29	1.43	1.22	1.19	1.06	0.89	0.86
3.00	30.77	16.64	9.21	1.39	1.21	1.19	1.09	0.92	0.88
5.00	79.43	44.98	24.15	1.29	1.19	1.19	1.17	1.07	0.97
7.00	164.59	129.35	76.74	1.27	1.25	1.20	0.92	1.26	1.31
9.00	210.43	209.45	181.98	1.28	1.08	1.31	0.72	0.81	1.22
11.00	223.27	232.18	225.01	1.31	1.03	1.25	0.69	0.70	0.93
12.00	226.44	237.51	234.67	1.32	1.02	1.22	0.69	0.69	0.87

* Normalized at control voltage = 0V

Outline Drawing

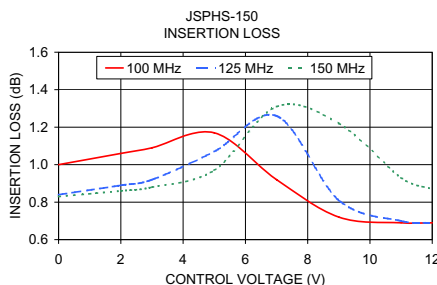
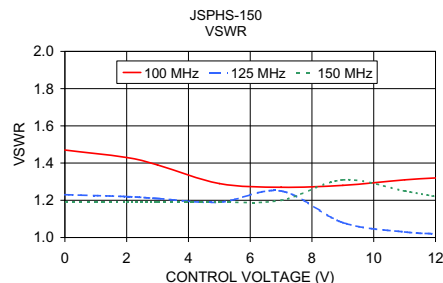
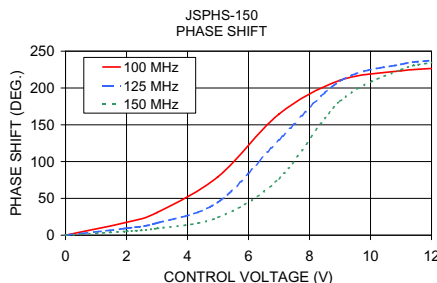
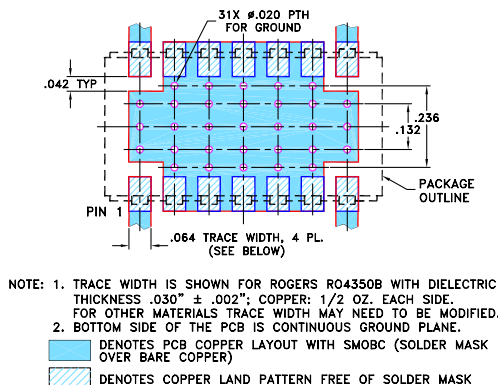


Outline Dimensions (inch mm)

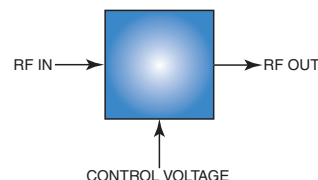
A	B	C	D	E	F	G
.450	.803	--	.100	.250	.102	.100
11.43	20.40	--	2.54	6.35	2.59	2.54

H	J	K	L	wt
.047	.065	.065	.470	grams
1.19	1.65	1.65	11.94	3.0

Demo Board MCL P/N: TB-152+ Suggested PCB Layout (PL-214)



electrical schematic



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