

Phase Shifter

JSPHS-150

50Ω 180° Voltage Variable 100 to 150 MHz



CASE STYLE: BK276
PRICE: \$31.95 ea. QTY (1-9)

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

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

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

Applications

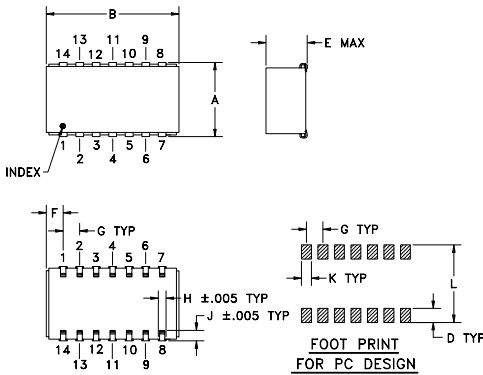
- aircraft communication
- delay for feed-forward amplifier

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	Min. 180	1.2	2.5	0-12	DC-30	1.2	1.7

Maximum operating power, 0 dBm

Outline Drawing

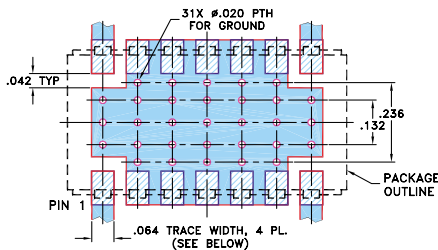


Outline Dimensions (inch/mm)

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)



- NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 - DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

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

