

Narrow Band

Phase Shifter

JSPHS-26

50Ω 180° Voltage Variable 18 to 26 MHz

Maximum Ratings

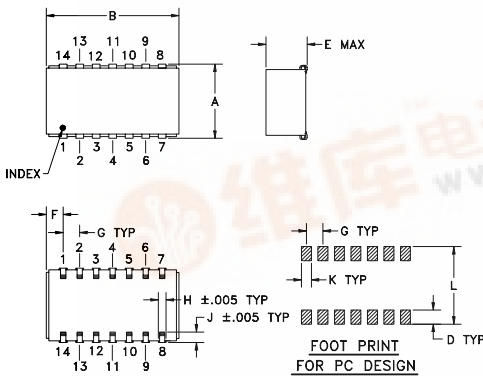
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Input Power	20 dBm max.
Control Voltage	20V

Pin Connections

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

^ pins must be connected together externally

Outline Drawing

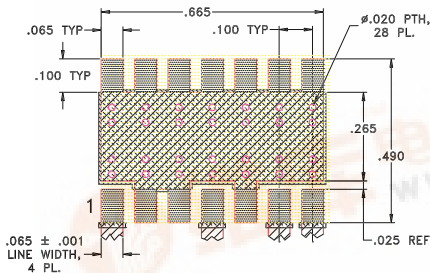


Outline Dimensions (inch/mm)

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-122 Suggested PCB Layout (PL-030)



ONE DOT GRID IS .010

DENOTES METALLIZATION

DENOTES SOLDER MASK

DENOTES METALLIZATION FOR DEVICE SOLDERING

RECOMMENDED MATERIAL: ROGERS RO4350, DIELECTRIC THICKNESS: .030 ± .002

COPPER: 1/2 OZ. EACH SIDE

Features

- good VSWR, 1.3:1 typ.
- low insertion loss, 1.2 dB typ.
- solder-plated J-leads for excellent solderability and strain relief
- aqueous washable

Applications

- IF signal processing



CASE STYLE: BK276
PRICE: \$29.95 ea. QTY (1-9)

Phase Shifter Electrical Specifications

FREQUENCY (MHz)	PHASE RANGE (Degrees)	INSERTION LOSS (dB)		CONTROL VOLTAGE (V)	CONTROL BANDWIDTH (kHz)	VSWR (:1)	
		Typ.	Max.			Typ.	Max.
18-26	Min. 180	1.2	3.0	0-12	Typ. DC-50	1.2	1.7

Maximum operating power, 0 dBm

Typical Performance Data

Control Voltage (V)	Phase Shift* (degrees)			VSWR (:1)			Insertion Loss (dB)		
	18 MHz	22 MHz	26 MHz	18 MHz	22 MHz	26 MHz	18 MHz	22 MHz	26 MHz
0.00	0.00	0.00	0.00	1.17	1.28	1.22	1.28	0.99	0.94
2.00	40.75	14.16	6.22	1.11	1.31	1.24	1.48	1.11	0.98
4.00	89.04	34.13	14.10	1.02	1.34	1.27	1.46	1.30	1.05
6.00	137.90	70.92	27.04	1.15	1.35	1.30	1.20	1.59	1.17
8.00	177.31	149.42	59.86	1.19	1.20	1.38	0.91	1.70	1.53
10.00	204.19	221.13	159.17	1.17	1.06	1.37	0.74	1.15	2.20
11.00	212.53	241.18	210.92	1.16	1.03	1.23	0.70	0.95	1.78
12.00	218.74	254.46	245.15	1.15	1.01	1.14	0.68	0.83	1.32

*Normalized at control voltage=0V

