

PL7641: 5-10MHz/L-band Diplexer

Features & Benefits:

- ❖ Reduces cable connector failures
- ❖ Greatly improves cable management
- ❖ High performance



Product Description

The **PL7641** 5-10MHz/L-Band diplexer is a passive unit used to separate or combine 5-10MHz sine reference signals to an L-Band signal.

Specifications

Wide band 5-10MHz/L-band Diplexer: PL7641

RF Specifications	Units	Typical	Minimum	Maximum
Frequency Range L-band 5 / 10 MHz	MHz		950 5	2400 20
Insertion Loss L-band 5 / 10 MHz	dB			0.5 0.5
Isolation L-band to 5 /10 MHz Port	dB		20	30
Flatness [in band] L-band 5 / 10 MHz	dB ptp			1 0.5
Return Loss 5 /10 MHz port L-band port Common port	dB			-16 -16 -14
Connector	Type	F, SMA, BNC 50-Ohm, BNC 75-Ohm, N		
DC Passing		No		
Current Passing	mA			800 mA [18 VDC]
Physical Specifications				
Operating Temperature Range	°C		-10	+55
Storage Temperature Range	°C		-45	+85
Relative Humidity		95% non-condensing		
Altitude	ft / Km	10,000 [3.08] operating 14,000 [12.2] non-operating		
Dimensions [DxWxH]	ins/cm	12x0.8x4 / 30.5x2x10.2		
Weight	lbs./Kg	0.5 / 0.23		
Physical / Environmental Specifications				
Shock & Vibration		Designed for normal transportation environment per section 514.4 MIL-STD-810E. Designed to withstand 20G at 11 ms [½ sine pulse] in non-operating configuration.		

1. With standard adiabatic derating of 2°C/1000 ft. [0.3 Km]

All specifications are subject to change without notice.

Ordering Information

Model	RF Connector Type	Description
PL7641	-75F	75-Ohm F
	-75BNC	75-Ohm BNC
	-50BNC	50-Ohm BNC
	-50SMA	50-Ohm SMA
	-50N	50-Ohm N

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Corporate Office Israel

16 Hataasia St.
Har Tuv A,
Beit Shemesh, Israel 99052,
Tel: +(972) 2 5899888
Fax: +(972) 2 5899898

US Office

1315 Outlet Center Drive,
Smithfield, North Carolina 27577,
Tel: +(1) 609 514 1800
Fax: +(1) 609 514 1881
