

## System accessories, continued

### Directional bridges

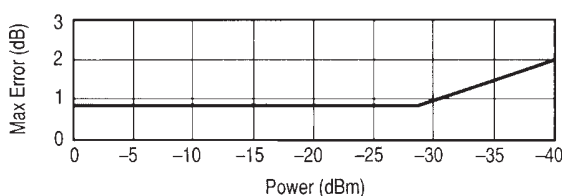
#### Agilent 85027 series directional bridges (AC/DC)

The 85027 series directional bridges are designed to operate with either the 8757 in AC or DC detection modes or with the 8756 or 8755 in AC detection mode. These bridges offer high directivity, excellent test port match, and a measurement range of up to 50 GHz in coax.

#### General information—directional bridges

##### Dynamic power accuracy

(50 MHz, 25 ±5 °C, +7 dBm input)



##### Typical insertion loss

6.5 dB at 10.0 MHz  
8.0 dB at 18.0 GHz  
10.0 dB at 26.5 GHz  
11.0 dB at 40.0 GHz  
13.0 dB at 50.0 GHz

##### Typical minimum input power for a 40 dB return loss measurement at 18 GHz: +2 dBm

**Dimensions:** 26 H x 124 W x 118 mm D  
(1.0 x 4.9 x 4.4 in)

**Weight:** Net 0.5 kg (1.2 lb), Shipping 2.3 kg (5 lb)

##### Accessories included with directional bridges:

###### 85027A

7 mm open/short  
Type-N (m)-(m) adapter

###### 85027B

3.5 mm (m) open/short  
3.5 mm (m)-(m) adapter  
3.5 mm (m)-(f) adapter

###### 85027C

Type-N (m) short  
Type-N (m) shielded open  
Type-N (m)-(m) adapter

###### 85027D

2.4 mm (f) open  
2.4 mm (f) short

###### 85027E

3.5 mm (f) open/short  
3.5 mm (f)-(f) adapter  
3.5 mm (f)-(m) adapter

### Directional Bridge Summary

For use with the 8757 in AC or DC detection mode or with the 8756 or 8755 in AC detection mode only

Model	Frequency range	Nominal impedance	Input connector	Test port connector	Frequency	Directivity	Frequency	Test port match
85027A	10 MHz to 18 GHz	50 ohms	Type-N (f)	7 mm	0.01 to 18 GHz	40 dB	0.01 to 8.4 GHz	<1.15 SWR
					8.4 to 12.4 GHz		<1.25 SWR	
					12.4 to 18 GHz		<1.43 SWR	
85027B	10 MHz to 26.5 GHz	50 ohms	3.5 mm (f)	3.5 mm (f)	0.01 to 20 GHz	40 dB	0.01 to 8.4 GHz	<1.15 SWR
					20 to 26.5 GHz	36 dB	8.4 to 20 GHz	<1.43 SWR
							20 to 26.5 GHz	<1.78 SWR
85027C	10 MHz to 18 GHz	50 ohms	Type-N (f)	Type-N (f)	0.01 to 12.4 GHz	36 dB	0.01 to 8.4 GHz	<1.15 SWR
					12.4 to 18 GHz	34 dB	8.4 to 12.4 GHz	<1.25 SWR
							12.4 to 18 GHz	<1.43 SWR
85027D	10 MHz to 50 GHz	50 ohms	2.4 mm (f)	2.4 mm (m)	0.01 to 26.5 GHz	35 dB	0.01 to 16 GHz	<1.18 SWR
					26.5 to 40 GHz	30 dB	16 to 30 GHz	<1.27 SWR
					40 to 50 GHz	25 dB	30 to 40 GHz	<1.40 SWR
				40 to 50 GHz (typical)		<1.85 SWR		
85027E	10 MHz to 26.5 GHz	50 ohms	3.5 mm (f)	3.5 mm (m)	0.01 to 20 GHz	40 dB	0.01 to 8.4 GHz	<1.15 SWR
					20 to 26.5 GHz	36 dB	8.4 to 20 GHz	<1.43 SWR
							20 to 26.5 GHz	<1.78 SWR