

Bias-Tee

Coaxial

ZFBT-4R2G-17+

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.

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CASE STYLE : K18

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter	Condition	Min.	Typ.	Max.	Units
Frequency	-	10		4200	MHz
Insertion Loss*	10-100 MHz	-	0.15	0.6	dB
	100-2100 MHz	-	0.6	1.2	dB
	2100-4200 MHz	-	0.6	1.6	dB
VSWR**	10-100 MHz	-	1.06	1.2	:1
	100-2100 MHz	-	1.13	1.3	:1
	2100-4200 MHz	-	1.13	1.3	:1
Isolation* RF to DC Port, RF&DC to DC Port	10-100 MHz	20	32	-	dB
	100-2100 MHz	20	40	-	dB
	2100-4200 MHz	20	50	-	dB

* Insertion Loss and Isolation are guaranteed up to 20 dBm-RF power and 200mA DC current. **VSWR measured with open and short at DC port.

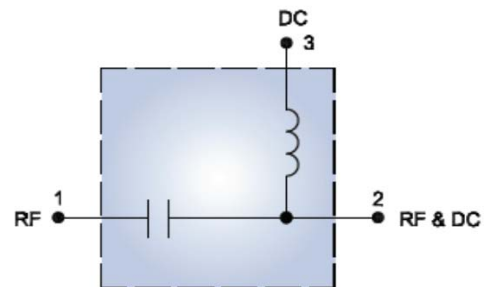
MAXIMUM RATINGS	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Max RF Power	1 W
Max Voltage at DC port	30 V
Max input current	500 mA
DC resistance from DC to RF & DC Port	4.5 Ω typ.

Permanent damage may occur if any of these limits are exceeded.

COAXIAL CONNECTIONS	
RF	1 (SMA Female)
RF & DC	2 (SMA Female)
DC	3 (SMA Female)

Case style size	1.25" X 1.25" X 0.75"
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Electrical Schematic



+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



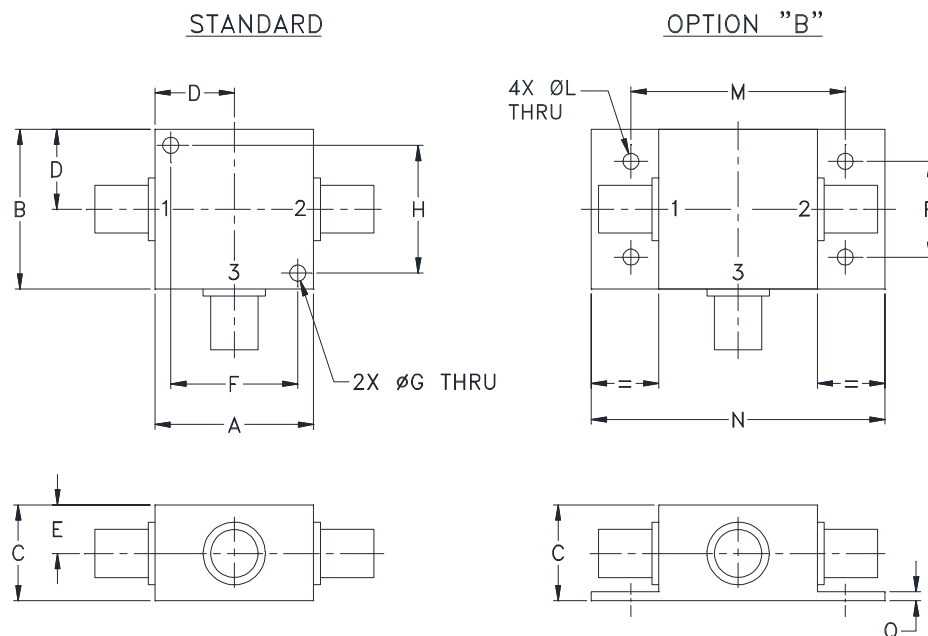
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Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
K18	1.25 (31.75)	1.25 (31.75)	.75 (19.05)	.63 (16.00)	.38 (9.65)	1.000 (25.40)	.125 (3.18)	1.000 (25.40)	--	--	.125 (3.18)	1.688 (42.88)	2.18 (55.37)

CASE#	P	Q	WT. GRAMS
K18	.75 (19.05)	.07 (1.78)	70.0

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
- Mounting bracket available on request. Add suffix B to part number.
- For port marking 1, 2, and 3 see specifications data sheet.
- For bracket version, option B, dimension "C" changes from .75 to .94 inches when connectors are type N.
- Refer to the individual model data sheet for the type of connectors available.



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Mini-Circuits ISO 9001 & ISO 14001 Certified



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I