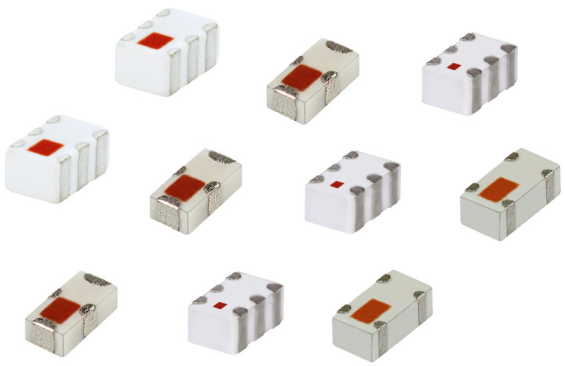
DESIGNER'S KIT K2-LTCC-WBZ+

Couplers / Baluns

50Ω 2.4 to 2.5 GHz 4.9 to 5.9 GHz



FEATURES

- Perfectly suited for WiFi, Bluetooth & Zigbee applications
- Incredibly small sizes down to 0402
- Rugged LTCC construction
- Excellent Power Handling
- Low cost

MINI-CIRCUITS DESIGNER'S KITS SPEED UP THE SOLUTION

RoHS COMPLIANT

K2-LTCC-WBZ+ ELECTRICAL SPECIFICATIONS

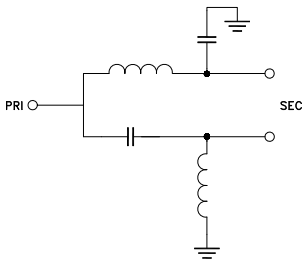
(21 models, 5 of each, 105 Total)

	Model	Frequency Low (MHz)	Frequency High (MHz)	Impedance (Ω)	Impedance Ratio	Case Style	Configuration
BALUNS	BLNK1-252R+	2400	2500	50	1	NK0402C-1	S
	BLJC1-252R+	2400	2500	50	1	JC0603C	R
	BLGE1-252R+	2400	2500	50	1	NK0402C-1	J
	BLNK2-252R+	2400	2500	50	2	NK0402C	S
	BLJC2-252R+	2400	2500	50	2	JC0603C	J
	BLGE2-252R+	2400	2500	50	2	GE0805C-9	J
	BLJC4-252R+	2400	2500	50	4	JC0603C	J
	BLGE4-252R+	2400	2500	50	4	GE0805C-9	J
	BLNK1-542R+	4900	5950	50	1	NK0402C	G
	BLJC1-542R+	4900	5950	50	1	JC0603C	J
	BLGE1-542R+	4900	5875	50	1	GE0805C-9	R
	BLNK2-542R+	4900	5950	50	2	NK0402C	G
	BLJC2-542R+	4900	5875	50	2	JC0603C	R
	BLGE2-542R+	4900	5875	50	2	GE0805C-9	R
	BLJC4-542R+	4900	5875	50	4	JC0603C	J
	BLGE4-542R+	4900	5875	50	4	GE0805C-9	J

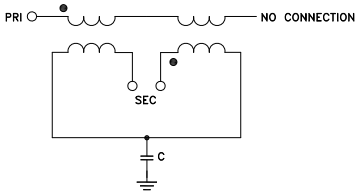
	Model	Frequency Low (MHz)	Frequency High (MHz)	Coupling Nom. (dB)	Mainline Loss (dB) Typ.	Directivity (dB) Typ.	VSWR (:1) Typ.	Power Input Max. (W)	Case Style
COUPLERS	CPJC-6-252R+	2400	2500	6.5	1.27	18	1.2	2	JC0603C
	CPJC-10-252R+	2400	2500	10	0.65	19	1.33	2	JC0603C
	CPJC-17-252R+	2400	2500	17.65	0.14	12	1.06	2	JC0603C
	CPJC-21-252R+	2400	2500	21	0.3	19	1.1	2	JC0603C
	CPJC-28-252R+	2400	2500	28	0.3	10	1.05	2	JC0603C

CONFIGURATIONS

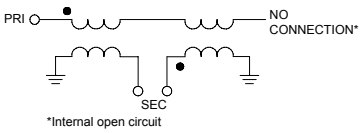
S



R

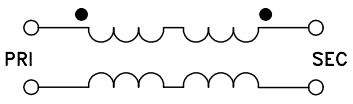


J



*Internal open circuit

G



Mini-Circuits

Environmental Specifications **ENV107**

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	-40° to 85° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-40° to 85° C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-40° to 125°C, 100 cycles	MIL-STD-202 Method 107, Condition A-3 except -40°C instead of -55° C and +125° C instead of -85° C
Solder Reflow Heat	Pb-Free Process 245° -250°C peak,	J-STD-020, 4-2 and 5-2,Figure 5-1
Solderability	10X Magnification	J-STD-002, Para 4.2.5, Test S, 95% Coverage
Shelf Life	Shelf life is 12 months when kept in sealed bags. Unused parts are to be resealed to preseve shelf life for proper solderability.	