

High CURRENT 100 kHz to 6000 MHz



JEBT



TCBT

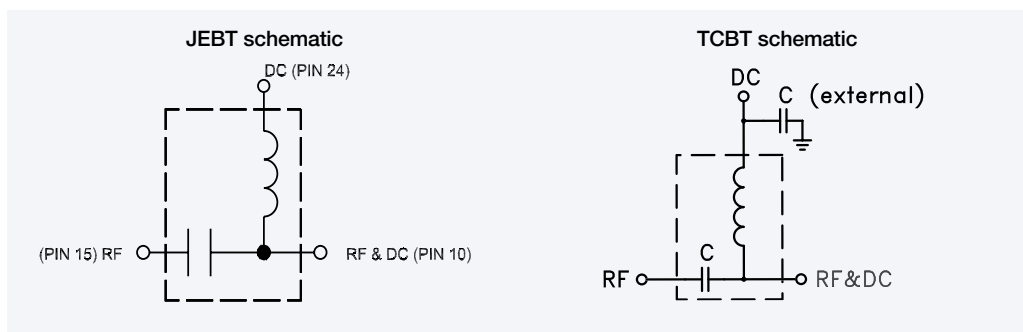
MODEL NO.	FREQ. RANGE (MHz) f_L - f_U	INSERTION LOSS* (dB)						ISOLATION* (dB) (RF port to DC port) (RF&DC port to DC port)						VSWR** (:1)						CASE STYLE Note B	CONSTRUCTION	PRICE \$ ea. Qty. (1-9)		
		L		M		U		L		M		U		L		M		U						
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.			
JEBT-4R2G	10-4200	0.15	0.6	0.6	1.2	0.6	1.6	32	20	40	20	40	20	—	—	—	—	—	—	—	—	BL301	hr	39.95
JEBT-4R2GW	0.1-4200	0.15	0.8	0.6	1.2	0.6	1.6	25	15	40	20	40	20	—	—	—	—	—	—	—	—	BL301	hr	59.95
NEW TCBT-2R5G	20-2500	0.2	0.8	0.35	0.8	0.7	1.2	65	40	44	25	25	20	1.05	1.5	1.05	1.2	1.1	1.2		pf		6.95	
NEW TCBT-6G	50-6000	0.2	0.8	0.7	1.8	1.1	2.5	52	38	28	18	19	17	1.05	1.5	1.1	1.3	1.2	2.2		pf		9.95	

L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

see suggested PCB layout (PL-146) for TCBT models

features

- wide band coverage 0.1 to 6000 MHz
- low insertion loss 0.4 dB typ.
- miniature surface mount 0.15"X0.15" (TCBT models)
- patent pending

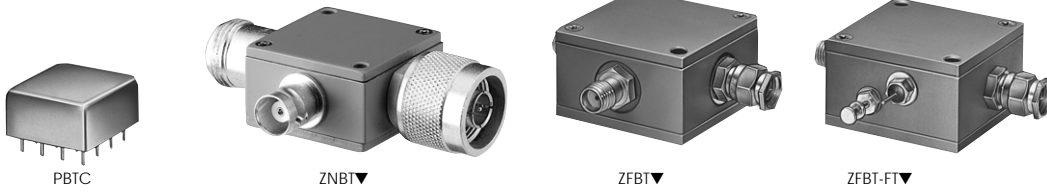


NOTES:

- Non-hermetic
- * Insertion loss and isolation are guaranteed up to 20 dBm-RF power and 200 mA DC current for PBTC, JEBT, and ZFBT Series; for TCBT, up to 25 dBm RF & 100mA DC current. (tested with C external=0.01 μF) for ZNBT, up to 30 dBm RF power and 500mA DC current.
- ** VSWR measured with open and short at DC port. For TCBT tested with C external=0.01 μF
- ❖ Insertion loss 1 dB Max. and isolation 7 dB Min. 0.1 to 0.3 MHz.
- ▼ Connectors: SMA-F at "RF", and SMA-M at "RF & DC" port.
For DC port, ZFBT available with SMA-F and for ZFBT-FT available with feedthrough terminal.
For ZNBT-60-1W, N-M at "RF", N-F at "RF+DC", BNC-F at DC.
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in General Information (Section 0).
- B. Case mounted options, case finishes are given in section 0, see "Case styles & Outline Drawings".
- C. Prices and specifications subject to change without notice.
- 1. Absolute maximum power, voltage and current ratings:
 - 1a. max. input current: 500 mA, except TCBT models, 200 mA.
 - 1b. max. RF power: 30 dBm
 - 1c. max. voltage at DC port: 30V; JEBT series, 25V.
- 2. DC resistance from DC to RF & DC port: 4.5 ohm typical.

Plug-In & Coaxial

WIDEBAND 0.1 to 6000 MHz



MODEL NO.	FREQ. RANGE (MHz) f_L - f_U	INSERTION LOSS* (dB)						ISOLATION* (dB) (RF port to DC port) (RF&DC port to DC port)						VSWR** (:1)						CASE STYLE ▼ Note B	CONNECTION	PRICE \$ ea. Qty. (1-9)		
		L		M		U		L		M		U		L		M		U						
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.			
PBTC-1G	10-1000	0.15	0.7	0.3	0.7	0.3	1.0	27	20	33	20	30	20	1.06	1.2	1.06	1.2	1.1	1.38	CO7	hh	25.95		
PBTC-3G	10-3000	0.15	0.7	0.3	1.5	1.0	2.5	27	20	30	20	35	20	1.06	1.2	1.13	1.66	1.6	1.7	CO7	hh	35.95		
❖ PBTC-1GW	0.1-1000	0.15	0.8	0.3	0.7	0.3	1.0	25	15	33	20	30	20	1.06	1.6	1.06	1.2	1.1	1.38	CO7	hh	35.95		
❖ PBTC-3GW	0.1-3000	0.15	0.8	0.3	1.5	1.0	2.5	25	15	30	20	35	20	1.06	1.6	1.13	1.66	1.6	1.7	CO7	hh	46.95		
NEW ZNBT-60-1W	2.5-6000	0.2	0.9	0.6	2.0	1.6	2.2	75	45	45	25	35	20	1.1	1.5	1.1	1.3	1.35	1.6	K558	gf	82.95		
ZFBT-4R2G	10-4200	0.15	0.6	0.6	1.2	0.6	1.6	32	20	40	20	50	20	1.06	1.2	1.13	1.3	1.13	1.3	K18	gf	59.95		
ZFBT-4R2G-FT	10-4200	0.15	0.6	0.6	1.2	0.6	1.6							1.06	1.2	1.13	1.3	1.13	1.3	Y460	hf	59.95		
ZFBT-6G	10-6000	0.15	0.6	0.6	1.4	1.0	2.2	32	20	40	20	30	17	1.06	1.2	1.13	1.3	1.13	1.5	K18	gf	79.95		
ZFBT-6G-FT	10-6000	0.15	0.6	0.6	1.4	1.0	2.2							1.06	1.2	1.13	1.3	1.13	1.5	Y460	hf	79.95		
❖ ZFBT-4R2GW	0.1-4200	0.15	0.8	0.6	1.2	0.6	1.6	25	15	40	20	50	20	1.06	1.6	1.13	1.3	1.13	1.3	K18	gf	79.95		
❖ ZFBT-4R2GW-FT	0.1-4200	0.15	0.8	0.6	1.2	0.6	1.6							1.06	1.6	1.13	1.3	1.13	1.3	Y460	hf	79.95		
❖ ZFBT-6GW	0.1-6000	0.15	0.8	0.6	1.4	1.0	2.2	25	15	40	20	30	17	1.06	1.6	1.13	1.3	1.13	1.5	K18	gf	89.95		
❖ ZFBT-6GW-FT	0.1-6000	0.15	0.8	0.6	1.4	1.0	2.2							1.06	1.6	1.13	1.3	1.13	1.5	Y460	hf	89.95		

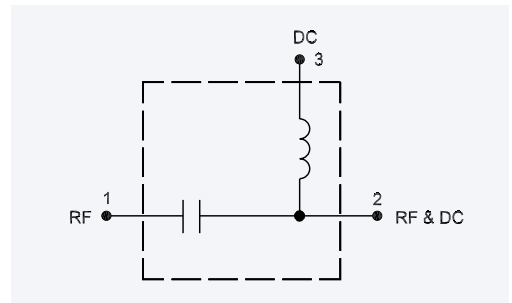
L = low range [f_L to $10 f_L$]

M = mid range [$10 f_L$ to $f_U/2$]

U = upper range [$f_U/2$ to f_U]

applications

- biasing amplifiers
- biasing of laser diodes
- DC return
- DC blocking
- good for digital & analog applications



pin & coaxial connections

PORT	gf	hf	hh	hr	pf
RF	1	in	9	15	4
RF & DC	2	out	12	10	3
DC	3	+15	3	24	1
GND	—	—	all other pins	all other pins	—
ISOLATED	—	—	—	—	2
DEMO BOARD	—	—	—	—	TB-268

NSN GUIDE

MCL NO.	NSN
ZFBT-4R2G	5895-01-481-4754
ZFBT-4R2GW-FT	5895-01-495-8805
ZPBT-4R2GW	5895-01-514-2948