



LA Techniques Ltd

LA19-05-01 50 kHz - 40 GHz Bias-T



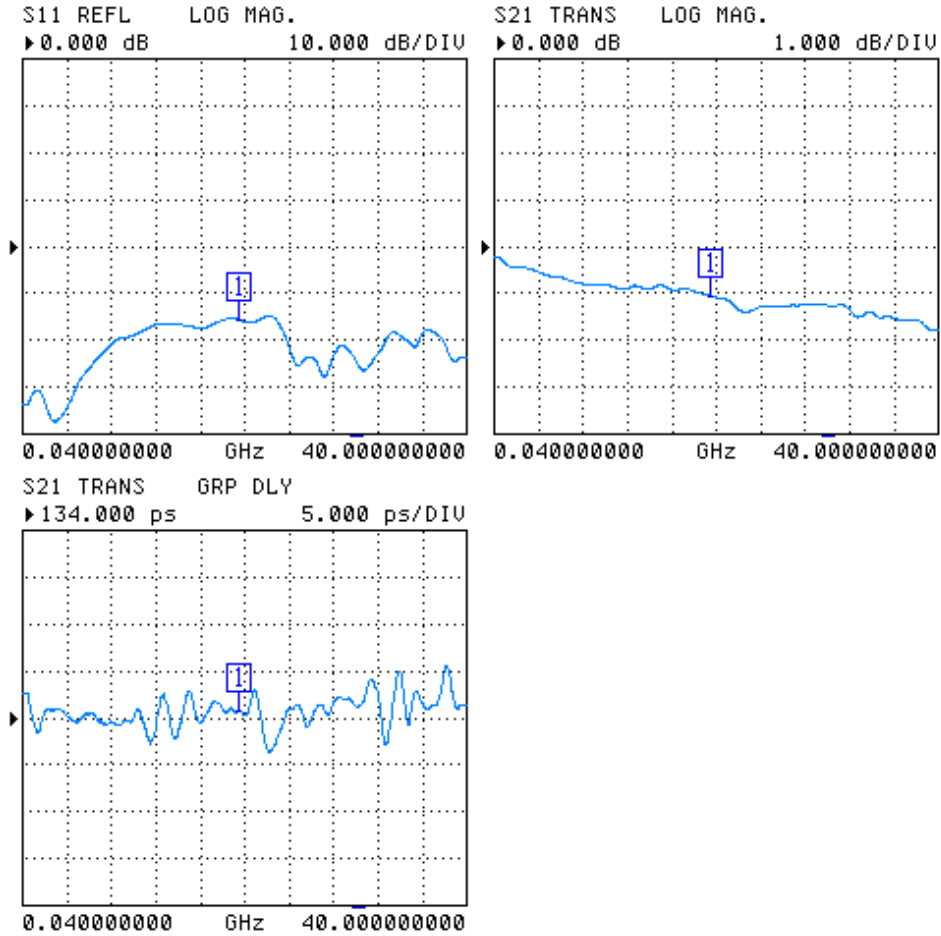
The LA19-05-01 is a broad band dc bias insertion tee. It is intended to pass high speed digital signals with little distortion. It provides a well controlled response extending from 50 kHz to over 40 GHz. It provides a pulse rise time of less than 10 ps and is able to support a maximum dc current of up to 200 mA. The LA19-05-01 is ideally suited for 40 Gb/s systems and other broad band applications

- 50 kHz - 40 GHz Bandwidth
- <10 ps Rise time
- 200 mA Current capability
- Good pulse performance
- Field Replaceable Connectors
- Small size, 16 x 30 mm, excluding connectors

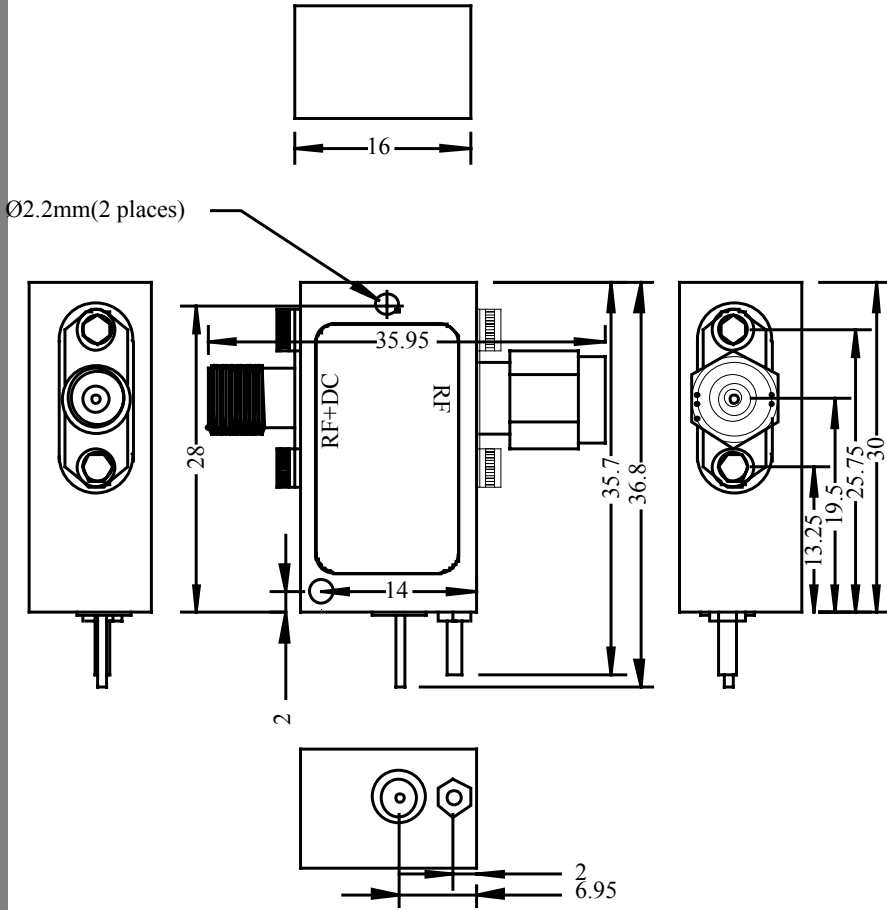
Electrical Specification
T_{case} = 25°C

Parameter	Units	Min	Typ	Max
Bandwidth				
Low frequency 3 dB point	kHz	-	50	80
High frequency 3 dB point	GHz	40	-	-
Rise time (10–90%)	ps	-	8	-
Insertion loss				
100 kHz – 100 MHz	dB	-	0.5	0.8
100 MHz – 12 GHz	dB	-	0.8	1.2
12 GHz – 40 GHz	dB	-	2.0	3.0
Return loss	-			
100 KHz – 12 GHz	dB	12	16	-
12 GHz - 40 GHz	dB	-	10	-
dc Current	mA	-	-	150
RF through capacitance	nF	160	-	-
dc voltage	V	-	-	16
Injection inductance	μH	150	-	-
Inductance resistance	Ω	-	-	15
RF Power (100 KHz – 10 GHz)	W	-	-	3
Operating temperature	°C	-10	-	75

Typical Measured Characteristics



Manufactured in the UK
Specification subject to change without notification



Contact



The Works, Station Road, Claygate,
 Surrey KT10 9DH, England
www.latechiques.com