



PARAMETER	TEST CONDITION	MIN.	NOM.	MAX.	UNITS
TUT™ Insertion Loss					
6.0 MHz	Input (7-8), Output (9-10)		3.2	4	dB
7.5 MHz	HP-8751A S21 100 Ω		2.8	3.5	dB
9.0 MHz			3.4	4	dB
TUT™ Attenuation					
1.0 MHz	Input (7-8), Output (9-10)	70	80		dB
27 MHz	HP-8751A S21 100 Ω	55	60		dB
TUT™ Return Loss (6.0 MHz to 9.0 MHz)	Input (9-10), 100 Ω (7-8) HP-8751A S11 100 Ω	10	12		dB
10BASE-T Turns Ratio	Transmit (4-5):(13-12) Receive (1-2):(16-15)	1.38 0.98	1.41 1.0	1.44 1.02	
10BASE-T Inductance	Transmit (4-5) 10 KHz, 0.02 Vrms Receive (1-2) 10 KHz, 0.02 Vrms	140 140	180 180		μH μH
10BASE-T Leakage Inductance	(4-5) with (13-12) Shorted (1-2) with (16-15) Shorted		0.5 0.8	0.7 1.0	μH μH
10BASE-T Interwinding Capacitance	(4-5) Short to (13-12) Shorted (1-2) Short to (16-15) Shorted		10 10	12 12	pF pF
10BASE-T DC Resistance	(1-2), (4-5) (13-12), (16-15)		0.2 0.6	0.3 0.8	Ω Ω
10BASE-T Return Loss	(13-12) to (4-5) 50 Ω (16-15) to (1-2) 100 Ω	18 18	23 23		dB dB
Isolation	Pins (1-8) shorted to (9-16) shorted	2000			Vrms

Schematic

CHIP **MEDIA**

RX- (1) (16) RX-

RX+ (2) (15) RX+

XMIT CT (3) (14) NC

TX- (4) (13) TX-

TX+ (5) (12) TX+

GND (6) (11) NC

(+) (7) (10) RING (-)

(-) (8) (9) TIP (+)

Band Pass Filter

Z

1:1

1:1.41

1:1

PRELIMINARY B918.P (2/99)