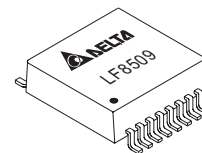




## FAST ETHERNET 10BASE-T/100BASE-TX TRANSFORMER MODULES

# Networking Components

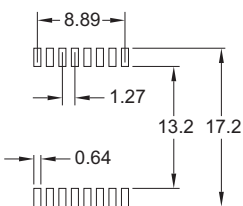
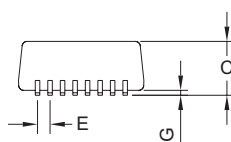
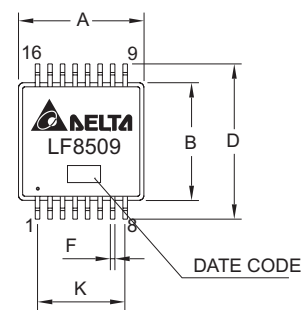


### ELECTRICAL CHARACTERISTICS @25°C

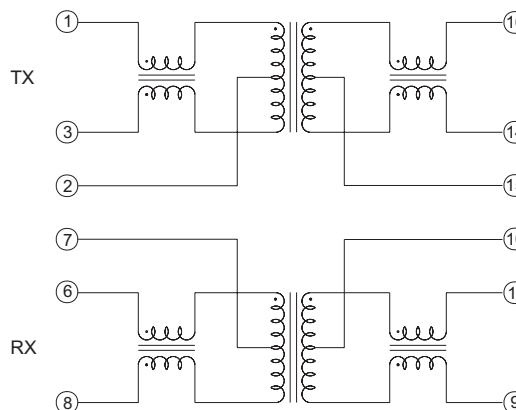
Rise Time & Fall Time @5.0ns (Max), Hi-Pot Test @60Sec, 1500Vrms, OCL @8mA DC Bias 350uH (Min)														
Model	Insertion Loss (dB Max)	Return Loss (dB Min)				Cross Talk (dB Min)				Com. To Com. Rejection Ratio (dB Min)		Diff. To Com. Mode Rejection (dB Min)		Turns Ratio TX/RX (±5%)
	1~100	2~30	40	50	60~80	1	30	60	100	1~60	60~100	1~60	60~100	1
	MHz	MHz				MHz				MHz		MHz		MHz
LF8509	-1.0	-18	-17	-14.5	-12	-65	-55	-45	-35	-40	-30	-40	-30	1:1 / 1:1

### MECHANICAL CONSTRUCTION

### SCHEMATICS



UNIT : mm / inch  
A = 12.70 ± 0.254 / 0.500 ± 0.010  
B = 12.00 ± 0.254 / 0.472 ± 0.010  
C = 5.80 ± 0.254 / 0.228 ± 0.010  
D = 16.00 ± 0.254 / 0.630 ± 0.010  
E = 1.27 / 0.050 (TYP)  
F = 0.46 ± 0.127 / 0.018 ± 0.005  
G = 0.254 ± 0.127 / 0.010 ± 0.005  
H = 0.254 / 0.010 (TYP)  
I = 1.00 ± 0.254 / 0.039 ± 0.010  
J = 0° ~ 8°  
K = 8.89 / 0.350 (TYP)



### DELTA ELECTRONICS, INC.

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[Http://www.deltaww.com/products/networking](http://www.deltaww.com/products/networking)