

**TRANSFORMER  
(COMMON MODE CHOKE)**

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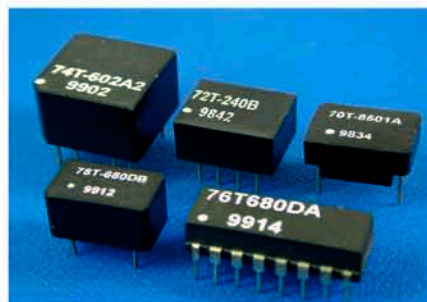


# 70T/72T/74T/76T/78T SERIES

# THROUGH HOLE COMMON MODE CHOKES

## FEATHER

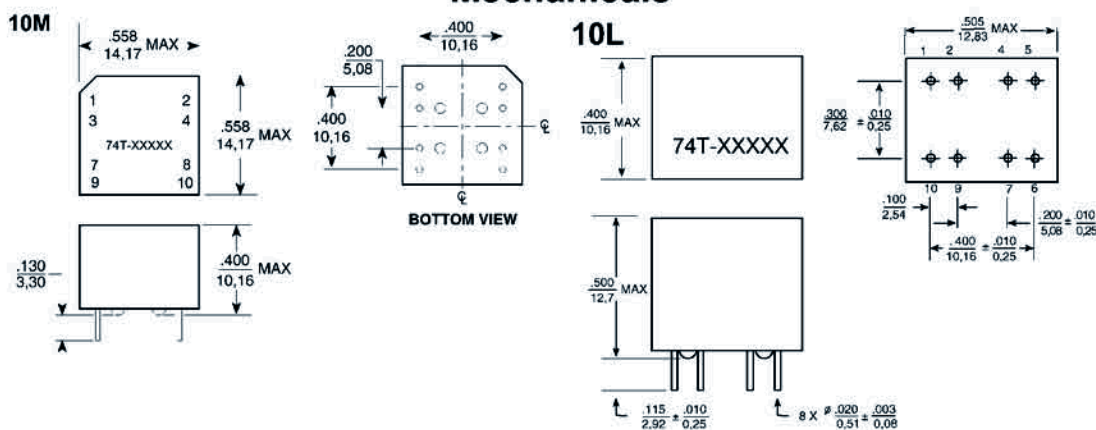
- Reduces radiated EMI emissions.
- Filters common mode noise for EMI reduction.
- Common mode attenuation from 100KHz to 1 GHz.



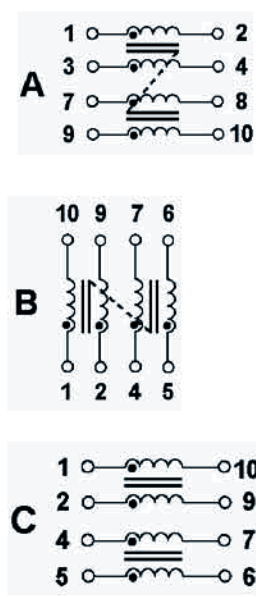
## ELECTRICAL SPECIFICATIONS@25°C-OPERATING TEMPERATURE 0°C TO 70°C

Part no.	No. of Lines	Primary Inductance OCL ( $\mu$ H MIN)	Common Mode Attenuation (dB TYP)									DCR ( $\Omega$ MAX)	Page Number Of Mech. & Schem.
			100KHz	1MHz	10MHz	30MHz	50MHz	100MHz	300MHz	500MHz	1GHz		
70T-240MA	2	24	1	14	28	32	33	28	13	5	-	0.30	6M-A
78T-680DB	2	68	8	25	33	32	30	27	18	12	-	0.20	4D-B
78T-141MA	2	140	14	34	45	49	50	47	38	12	25	0.60	4M-A
70T-690DB	3	69	8	22	29	29	28	26	20	15	-	0.20	6D-B
72T-240MA	4	24	-	21	32	38	39	34	24	13	-	0.30	8M-A
72T-360SA	4	36	8	24	37	40	40	38	30	24	-	0.20	8S-A
72T-500XB	4	50	14	34	45	49	50	47	20	15	10	0.30	8X-B
72T-680LB	4	68	7	24	37	41	42	40	31	27	-	0.35	8L-B
72T-680DA	4	68	8	23	29	29	28	25	17	11	-	0.20	8D-A
72T-141XB	4	140	14	33	44	48	48	43	33	28	19	0.60	8X-B
74T-102MA	4	1000	28	41	42	32	22	-	-	-	-	0.70	10M-A
74T-472MA	4	4700 $\pm$ 30%	40	51	37	28	23	20	-	-	-	1.00	10M-A
74T-602MA	4	6000	44	54	33	32	29	-	-	-	-	1.40	10M-A
74T-332LB	4	3290	40	51	37	28	23	20	-	-	-	1.00	10L-B
76T-680DA	6	68	8	23	30	29	28	27	21	15	-	0.20	16D-A

## Mechanicals



## Schematics



Dimensions: inches/mm

Unless otherwise specified, all tolerances are  $\pm .010/\pm 0.25$



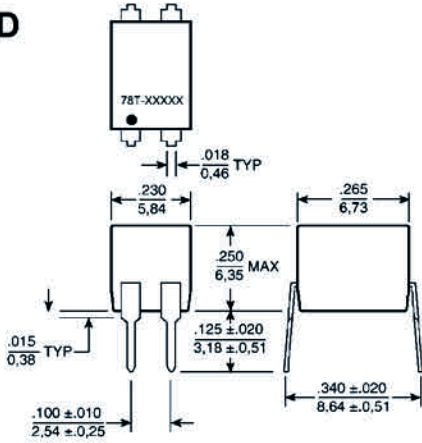
# 70T/72T/74T/76T/78T SERIES

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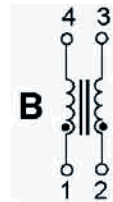
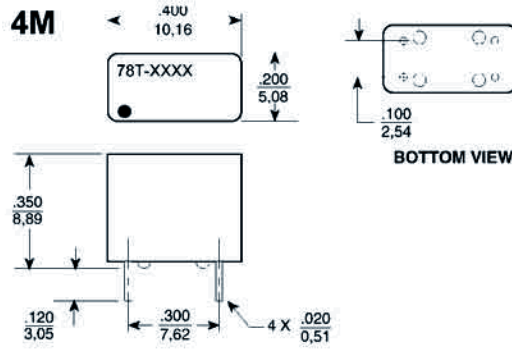
## Mechanicals

## Schematics

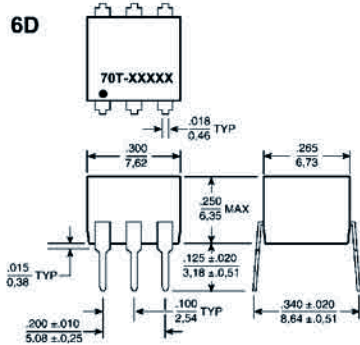
4D



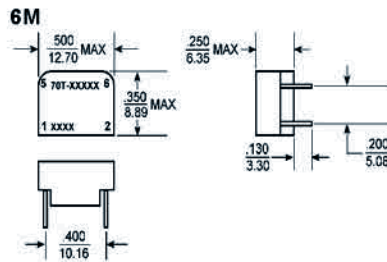
4M



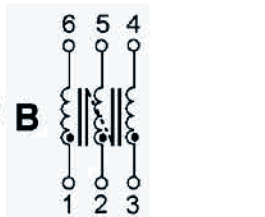
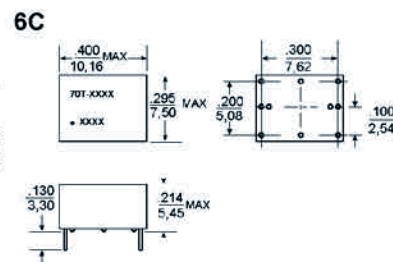
6D



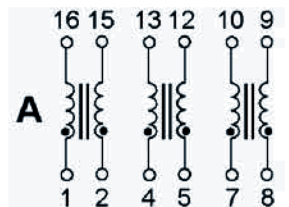
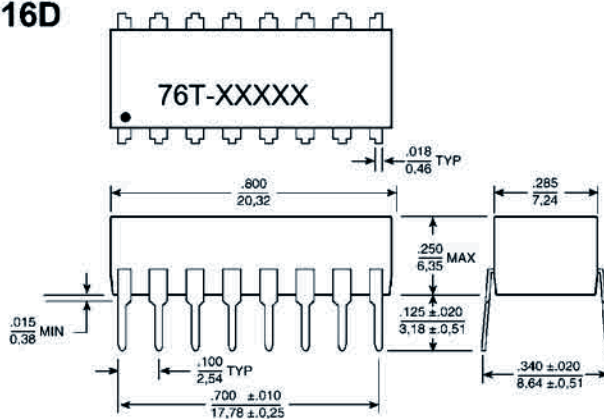
6M



6C



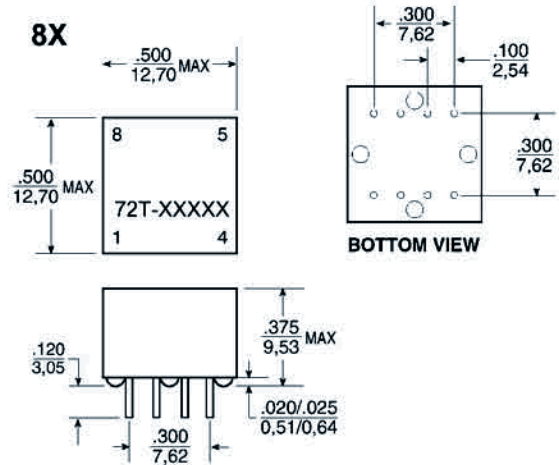
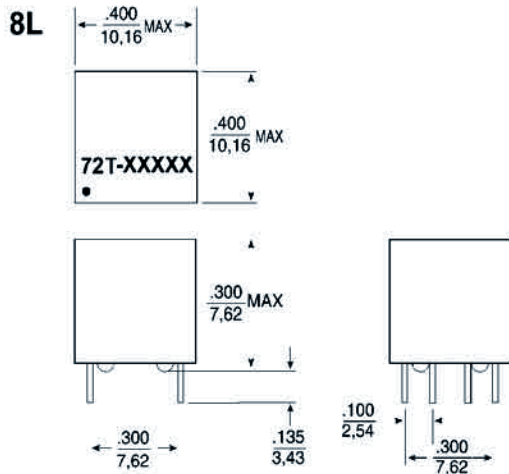
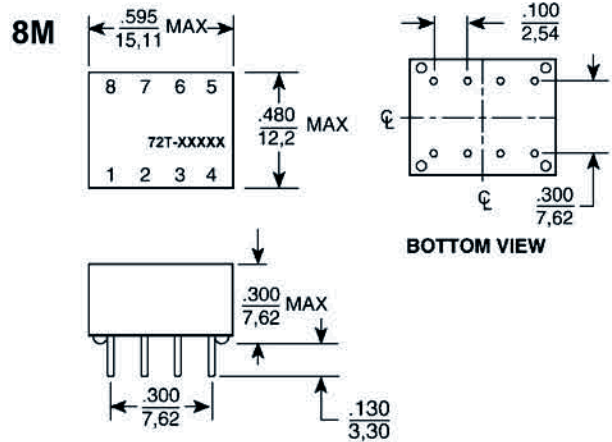
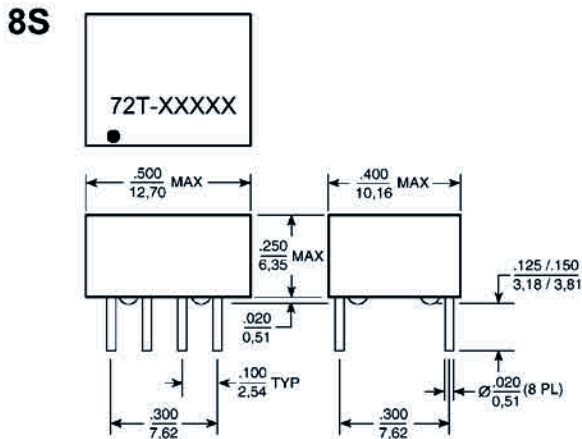
16D



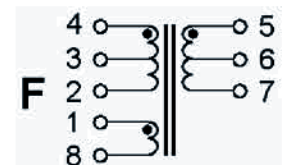
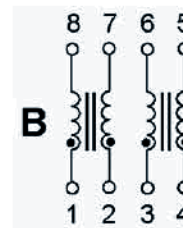
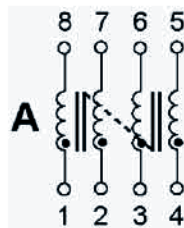
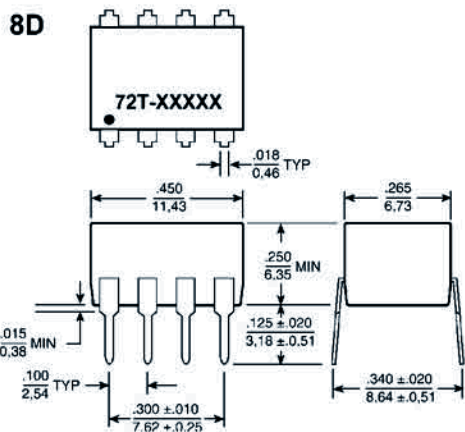
Dimensions: inches/mm

Unless otherwise specified, all tolerances are  $\pm .010/\pm 0.25$

## Mechanicals



## SCHEMATIC

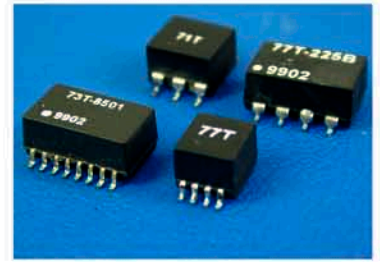


Dimensions: inches/mm

Unless otherwise specified, all tolerances are  $\pm .010 / \pm 0.25$

**FEATHER**

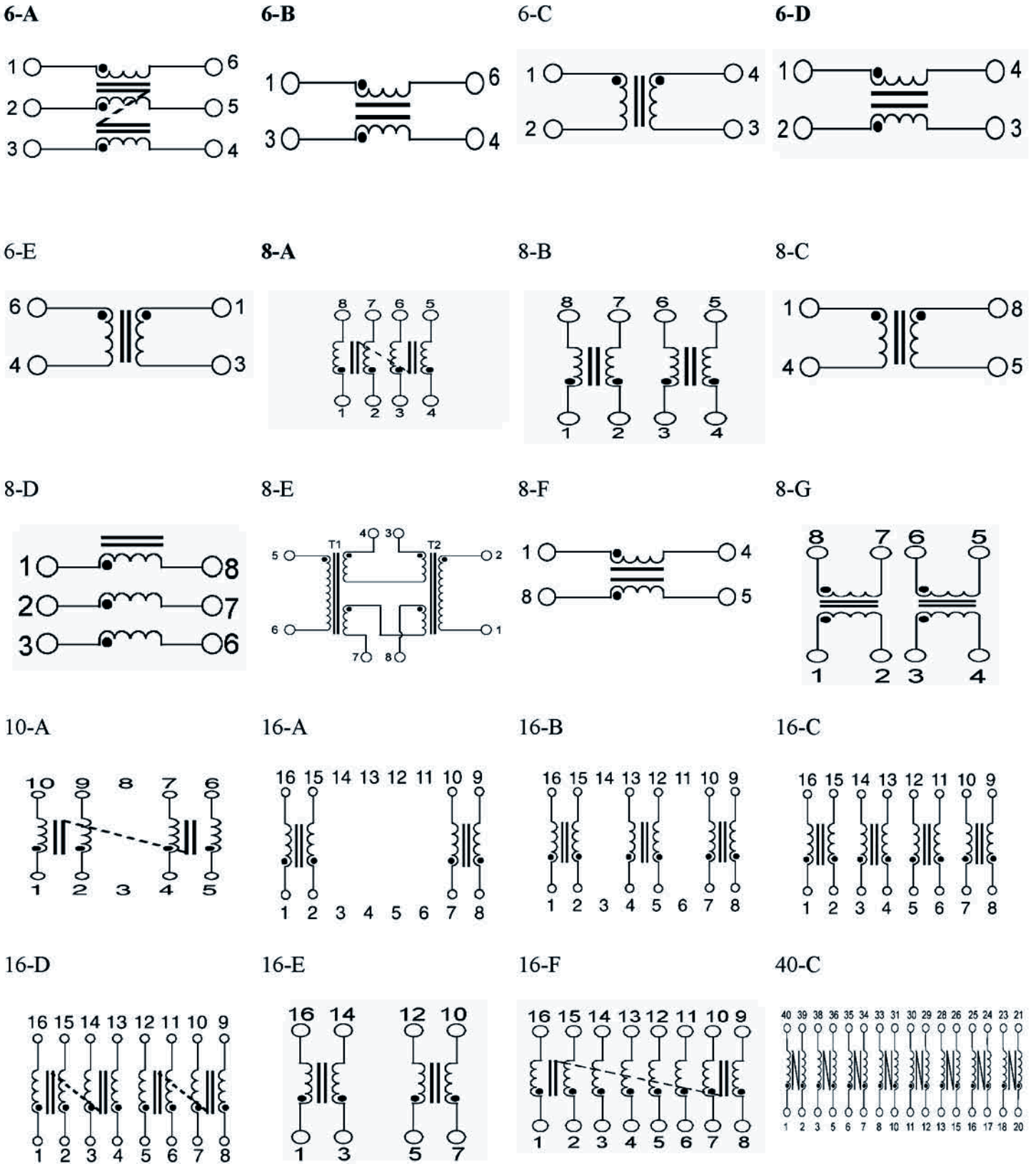
- Reduces radiated EMI emissions.
- Filters common mode noise for EMI reduction.
- Common mode attenuation from 100KHz to 1 GHz.


**ELECTRICAL SPECIFICATIONS@25°C-OPERATING TEMPERATURE 0°C TO 70°C**

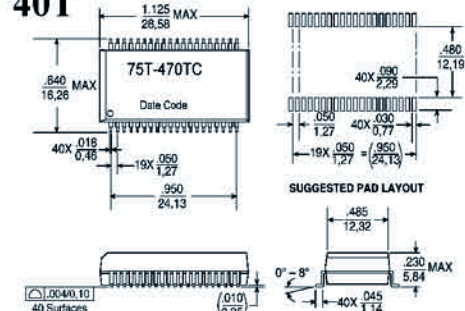
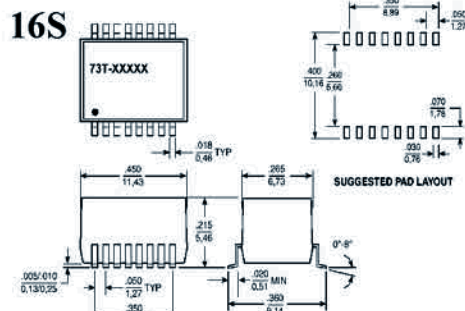
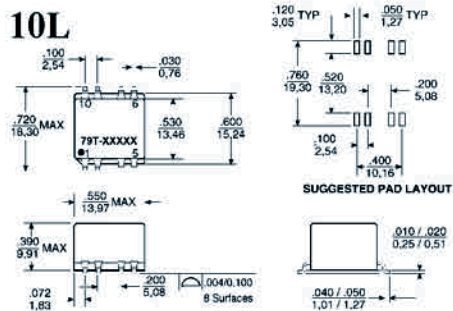
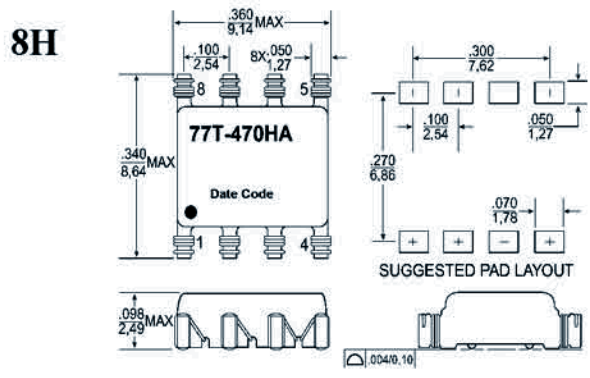
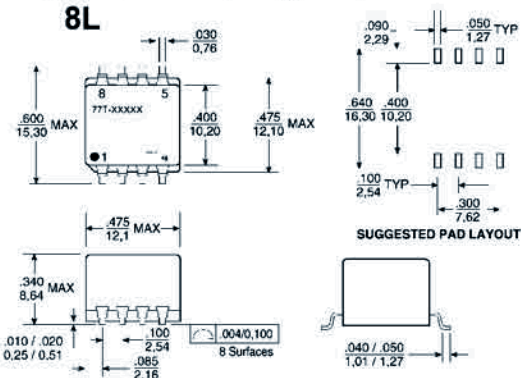
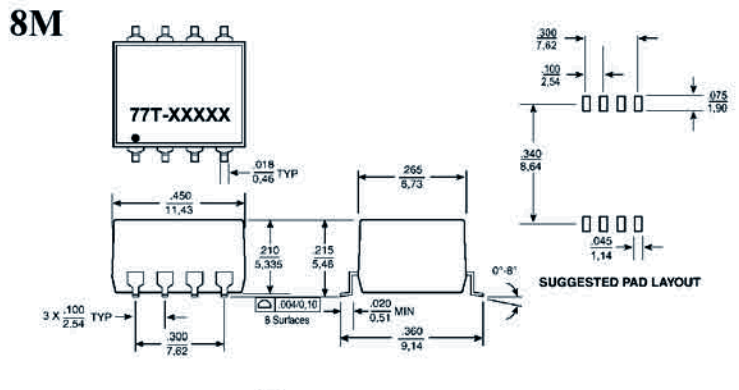
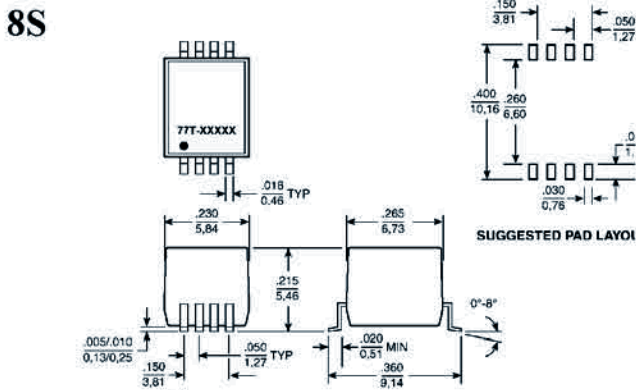
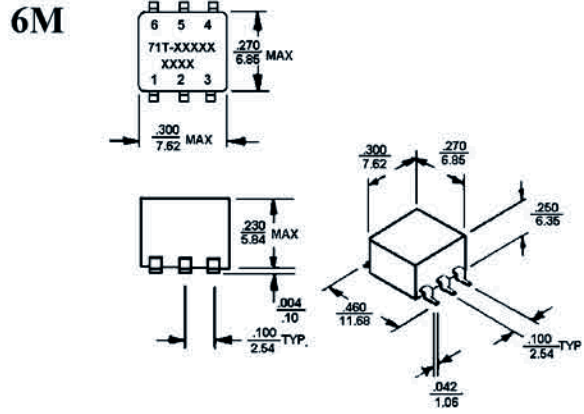
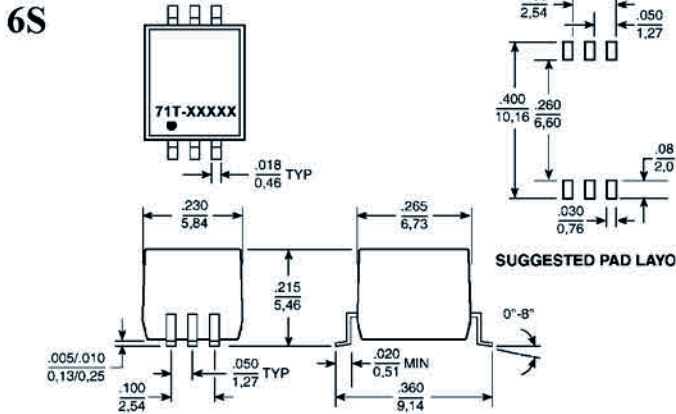
Part no.	No. of Lines	Primary Inductance OCL ( $\mu$ H MIN)	Common Mode Attenuation (dB TYP)										DCR ( $\Omega$ MAX)	Package Schematic
			100KHz	1MHz	10MHz	30MHz	50MHz	100MHz	300MHz	500MHz	1GHz			
71T-470MB	2	47	11	27	40	44	42	36	26	17	-	0.30	6M-B	
71T-200MA	3	20	6	14	27	30	30	30	30	28	25	0.20	6M-A	
71T-690MA	3	69	9	24	31	30	29	27	21	16	-	0.60	6S-A	
77T-225LA	4	22.5	7	20	30	37	38	34	24	13	-	0.20	8L-A	
77T-240MB	4	24	8	21	32	36	37	36	30	20	-	0.30	8M-B	
77T-330MA	4	33	2	14	20	19	19	18	14	8	3	0.20	8M-A	
73T-370SA	4	37	8	21	28	28	28	27	25	22	-	0.35	16S-A	
77T-470MA	4	47	3	19	32	36	35	29	12	6	-	0.20	8M-A	
77T-680SA	4	68	8	22	28	28	27	25	20	15	-	0.60	8S-A	
77T-101LB	4	100	14	33	44	48	49	44	34	29	20	0.70	8L-B	
79T-472LA	4	4700 $\pm$ 30%	40	51	38	30	25	20	14	13	-	1.00	10L-A	
73T-680SB	6	68	8	22	29	32	30	29	24	19	-	1.40	16S-B	
73T-360SC	8	36	8	24	36	28	35	29	18	11	-	1.00	16S-C	
73T-680SD	8	68	8	24	30	29	27	24	16	11	-	0.20	16S-D	
75T-470TC	16	47	7	27	40	44	42	36	26	-	-	0.40	40T-C	

Part no.	Turns Ratio ( $\pm$ 5%)	OCL ( $\mu$ H MIN.)	Cw/w (pF MAX.)	LL ( $\mu$ H MAX.)	DCR ( $\Omega$ MAX)	Isolation (Vrms MIN.)	Package Schematic
77T-470HA	1:1:1:1	47.0	16	0.20	0.30	500	8H-A
77T-240LA	1:1:1:1	24.0	15	0.23	0.30	500	8H-A

Schematic



## MECHANICALS



Dimensions: inches/mm

Unless otherwise specified, all tolerances are  $\pm 0.005/\pm 0.13$



# 75T SERIES

## FDDI OVER TWISTED PAIR DUAL TRANSFORMERS & CHOKES

### FEATURES

- SUPPORT FDDI OVER TWISTED PAIR CHIPSETS
- USE WITH MLT-3, QPR-4, NRZI OR 4B/5B ENCODING SCHEMES
- LOW CROSSTALK
- SOIC SURFACE MOUNT PACKAGING
- DESIGNED TO WITHSTAND INFRARED AND VAPOR PHASE SOLDERING
- PICK AND PLACE COMPATIBLE

### TEST CONDITIONS

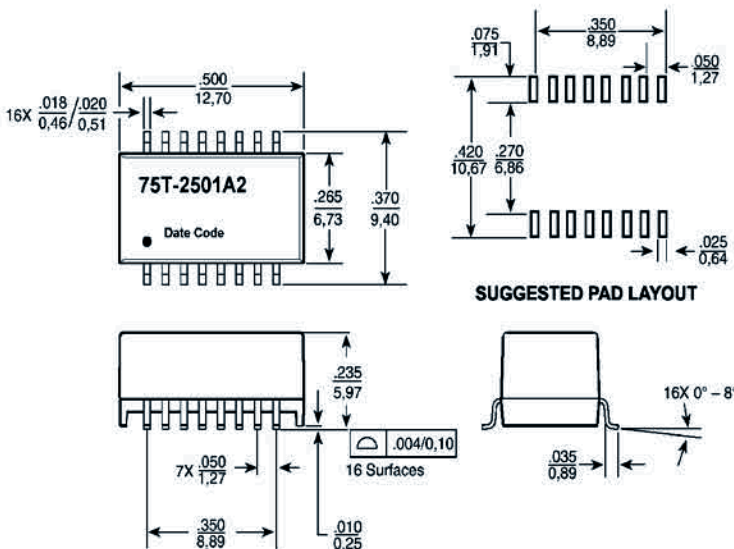
- Inductance ----- 100KHz/20mV
- Leakage Inductance ----- 1MHz/20mV
- Interwinding Capacitance ---- 1MHz/20mV

### ELECTRICAL SPECIFICATIONS @25°C



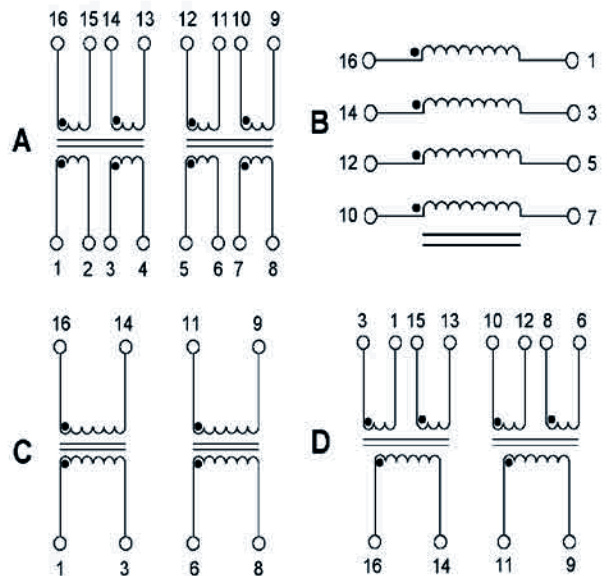
PART NUMBER	TURNS RATIO	Primary Inductance OCL (uH MIN.)	Rise Time Tr (10-90%)nS	Interwinding Capacitance Cww (pF MAX.)	Leakage Inductance LL (uH MAX.)	DC Resistance (Ω MAX.)	Crosstalk 1-200MHz (dB TYP.)	HIPOT (Vrms min.)
75T-2501A2	1:1:1:1	25	3.0	6.0	0.15	0.22	-40	2000
75T-7501A2	1:1:1:1	70	3.0	6.0	0.15	0.22	-40	2000
75T-1411A2	1:1:1:1	140	3.0	6.0	0.15	0.22	-40	2000
75T-2502B2	1:1	25	N/A	12.0	0.15	0.22	-40	N/A
75T-2511A2	1:1:1:1	250	3.0	7.5	0.15	0.24	-40	2000
75T-3001C2	1:1	30	1.6	5.0	0.10	0.2	—	2000
75T-1501C2	1:1	15	0.8	5.0	0.10	0.2	—	2000
75T-7R51C2	1:1	7.5	0.5	5.0	0.10	0.2	—	2000
75T-6001C2	1:1	60	2.0	5.5	0.10	0.2	—	2000

### MARKINGS AND DIMENSIONS



Dimensions:  $\frac{\text{Inches}}{\text{mm}}$  Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$

### SCHEMATICS



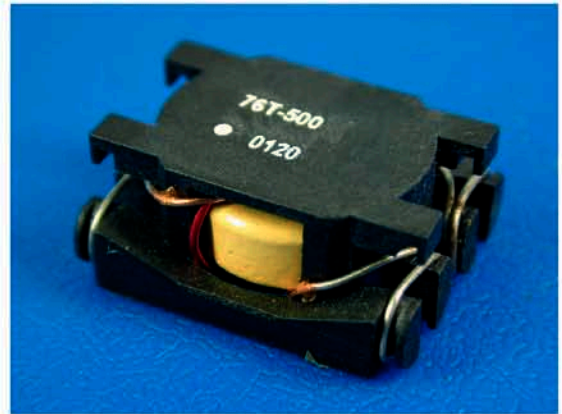


## FEATURES

- SOLUTIONS BASED ON IMPEDANCE, SIZE AND CURRENT.
- DESIGNED FOR DC/DC CONVERTERS.
- WIDE VARIETY OF INDUCTOR SIZES AND CURRENT RATINGS AVAILABLE.
- DIELECTRIC STRENGTH : 500Vrms

## TEST CONDITIONS

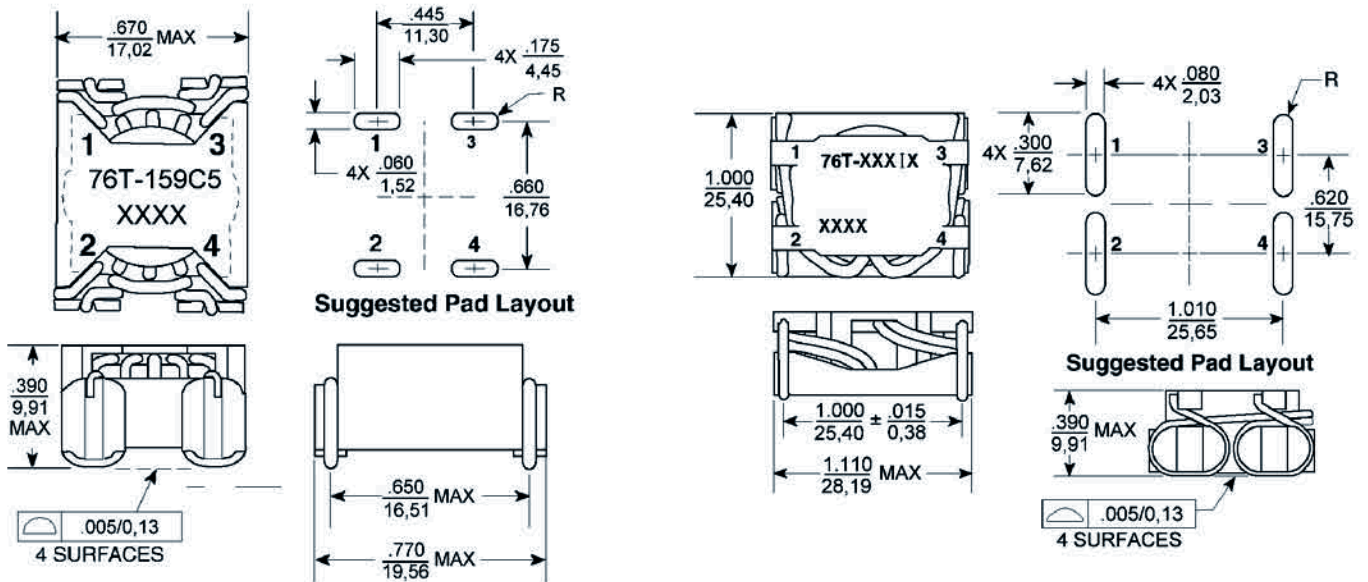
- Inductance ----- 10KHZ/200mV
- Leakage Inductance ----- 100KHZ/1V
- Interwinding Capacitance -- 100KHZ/1V



## ELECTRICAL SPECIFICATIONS @25°C

PART NUMBER	Rated Current For 55°C Rise (Amps)	Inductance (mHy±25%.)	DCR(max) (mΩ)	Impedance Curve (sss # below)	Package
76T-159C5	2.80	1.590	80	3	C5
76T-132C5	3.30	1.320	60	4	C5
76T-221C5	3.30	0.225	60	5	C5
76T-768C5	4.70	0.760	40	6	C5
76T-591C5	5.60	0.590	20	7	C5
76T-531I6	7.20	0.530	16	8	I6

## MARKINGS AND DIMENSIONS



Dimensions: inches/mm

Unless otherwise specified, all tolerances are  $\pm .005/\pm 0.13$