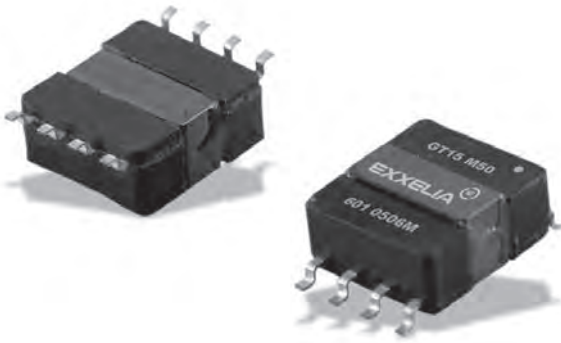


# Gate Drive Transformer GDT 15 Series

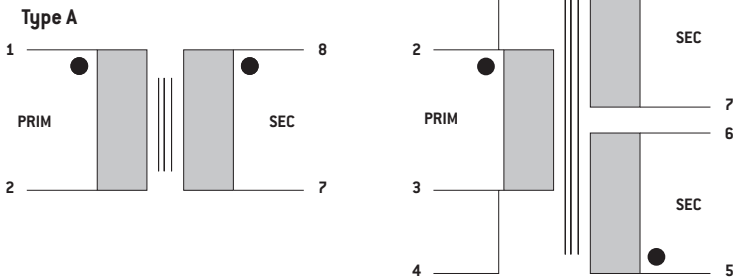


- Excellent performances in Low-profile package
- Suited for Avionics and Space applications
- Frequency range: 50 kHz - 500 kHz
- Applied standards: ECSS-Q-70-71 / ESCC-3201 screening flow applied / ABD-0100 / DO-160
- Materials meet UL94-V0 rating
- Approx. weight: 5 grams

## Electrical Data (25°C)

ID Code	ET (V $\mu$ s)	Primary Inductance Max	Turn ratio $\pm 1\%$	DC Resistances $\pm 15\%$ (m $\Omega$ )	Leakage Inductance	Interwinding Capacitance	Connection Type
GDT15 M50 60 1WR	60	L <sub>1-4</sub> > 500 $\mu$ H (10kHz - 1V <sub>RMS</sub> )	N <sub>7-6</sub> / N <sub>1-4</sub> = 1.52	R <sub>1-4</sub> = 170 R <sub>6-7</sub> = 400	L <sub>f1-4</sub> < 2.0 $\mu$ H (6-7 in short circuit)	C <sub>1-4/6-7</sub> < 150 pF	A
GDT15 M85 80 2WR	80	L <sub>1-4</sub> > 850 $\mu$ H (10kHz - 1V <sub>RMS</sub> )	1/1/1	R <sub>1-3</sub> = 400 R <sub>8-7</sub> = 400 R <sub>6-5</sub> = 400	L <sub>f1-2/3-4</sub> < 25 $\mu$ H	C <sub>1-4/6-7</sub> < 150 pF	B

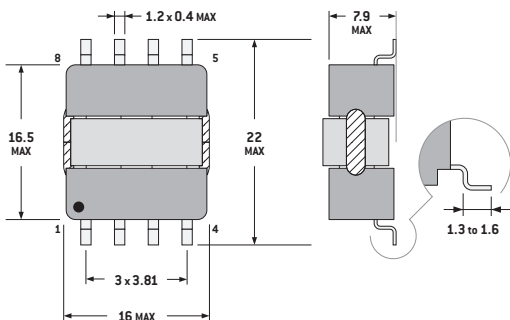
## Connections



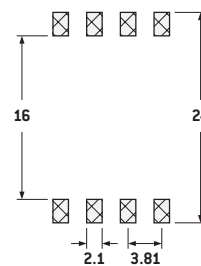
## Notes

- Insulation class (windings): Classe H
- Operating temperature: -55°C to +125°C
- Storage temperature: -55°C to +140°C
- Dielectric Strength: 500 V<sub>RMS</sub> - 50 Hz
- Isolation Voltage: 500 V<sub>DC</sub> - 50 min (R<sub>i</sub>  $\geq$  100M $\Omega$ )

## Dimensions (mm, top view)

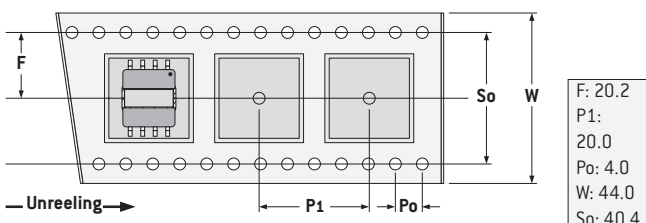


## PCB Layout (suggested)



## Packaging

Tape and Reel:  
400 units per reel of diameter 330 mm



## Marking

