

MIL-STD 1553 Interface Transformers

DBIT 5 7 x 400



- In accordance to MIL-STD 1553 A & B
- Meet all the electrical requirements of Manchester II serial bi-phase data transmission, 1 MHz operation
- Waveform integrity: 27 V_{ptop} level at 250 kHz - droop < 20 % into the lowest turn's wdg
- Encapsulated in accordance with MIL-T-21038 (DAP box)
- Applied standards: ESCC 3201 generic specification for space products
- Open-circuit impedance greater than 4 kΩ from 75 kHz to 1 MHz
- Operating temperature range: -40°C to +125°C
- Weight: 3 to 3.5 grams

Electrical Data (25°C)

ID Code	Turn ratio 1-3: 4-8	Turn ratio 1-3: 5-7	R _{DC} max. (Ω) [1-3]	R _{DC} max. (Ω) [4-8]	Primary Inductance (mH) min at 75 kHz-1V
DBIT 5 7x400	1: 2.5	1: 1.79	1	3.5	L _p (4-8) 8.5

Notes

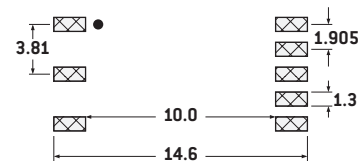
Common mode rejection: 45 dB min.
 Dielectric withstanding voltage: 500 V_{RMS}.
 Insulation resistance: 1000 MΩ min - 500 V_{DC}
 Tolerance ratio ± 2 %.

To Order

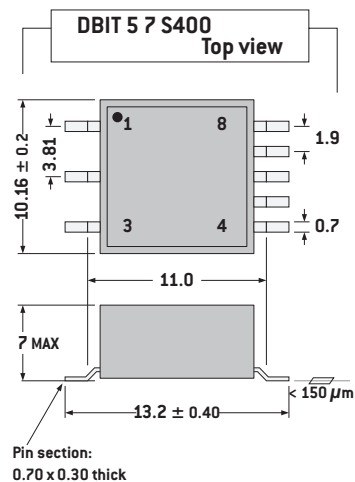
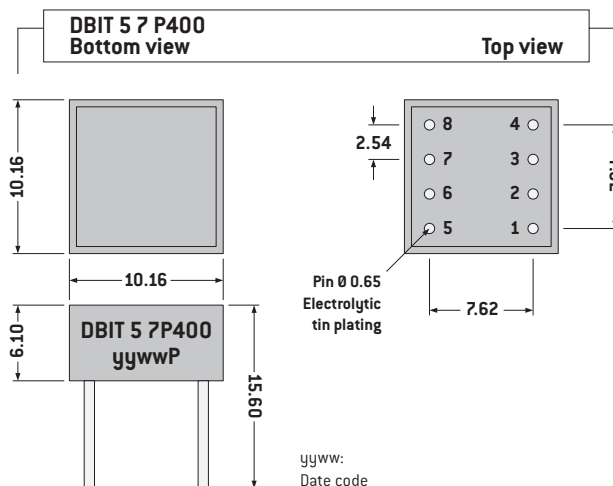
DBIT			DBIT 5 7x400	
DBIT	5	7	P400	
Range	Code turn ratio	Case height 7	x = P for Pin through hole x = S for SMD	

PCB Layout

(suggested, DBIT 5 7 S400)

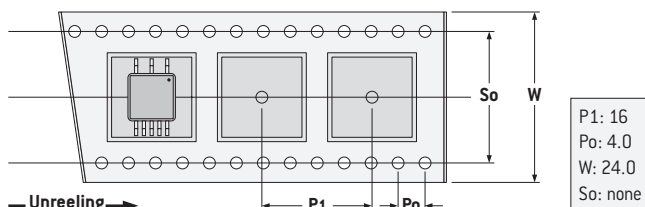


Typical Dimensions (mm)



Packaging

Individually packed: 32 parts on 2 layers.
 Tape and Reel (DBIT 5 7 S400):
 400 units per reel of diameter 330 mm



Connections

