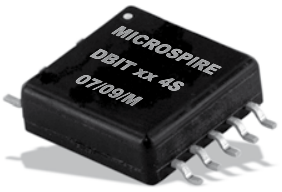
MIL-STD 1553 Interface Transformers - DBIT xx 4 S



- Miniature package, less board space
- In accordance to MIL-STD 1553 A&B
- Meet all the electrical requirements of Manchester II serial bi-phase data transmission, 1 MHz operation
- Epoxy molding in accordance with outgassing requirements of ECSS-Q-ST-70-02C
- Applied standards: ESCC 3201 generic specification for space products
- Frequency range 75 KHz to 1 MHz
- Operating temperature range: –55 °C to +125 °C
- Weight: 1.5 grams

Electrical Data (25°C)

ID Code	Turns ratio (±3%) P : S	Connections	DCR max. (1-3)(Ω)	DCR max. (4 8)(Ω)	DCR MAX (5-7)(Ω)	OUTPUT RISE TIME ns (MAX)	Impedance Ω (MIN) 75 kHz to 249 kHz	Impedance Ω (MIN) 250 kHz to 1 MHz
DBIT 91 4S	1 : 3.75	A	0.25	3.00	-	250 ns	(4-8) 4000	(4-8) 4000
DBIT 50 4S	1 : 2.50	A	1.5	3.5	-	250 ns	(4-8) 3000	(4-8) 4000
DBIT 70 4S	1.25 : 1	A	2.4	2.1	-	150 ns	(1-3) 3000	(1-3) 4000
DBIT 12 4S	1.41 : 1	A	2.7	2.2	-	150 ns	(1-3) 5000	(1-3) 7200
DBIT 90 4S	1 : 2.70	B	0.25	-	2.00	250 ns	(5-7) 2000	(5-7) 3000
DBIT 51 4S	1 : 1.79	B	1.5	-	2.5	150 ns	(5-7) 2000	(5-7) 4000
DBIT 71 4S	1.66 : 1	B	2.4	-	1.5	150 ns	(1-3) 3000	(1-3) 4000
DBIT 11 4S	2.00 : 1	B	2.6	-	1.3	150 ns	(1-3) 5000	(1-3) 7200

To Order

DBIT ## 4S

DBIT	##	4	S
Range	Code Turn Ratio	Case height 4.7	S SMD

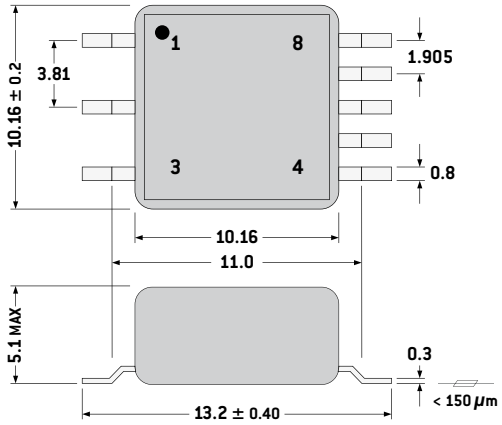
Notes

Common mode rejection: 45 dB min.

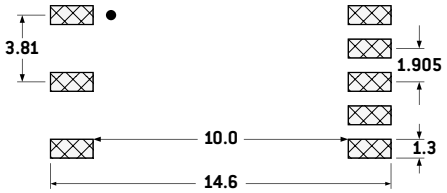
Dielectric withstanding voltage: 100 Vrms.

Insulation resistance: 1000 MΩ min.

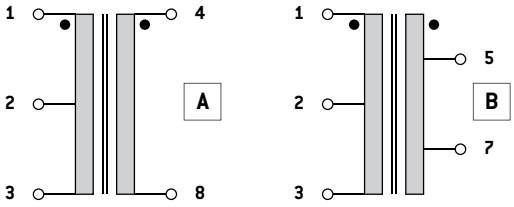
Typical Dimensions (mm, top view)



PCB Layout (suggested)

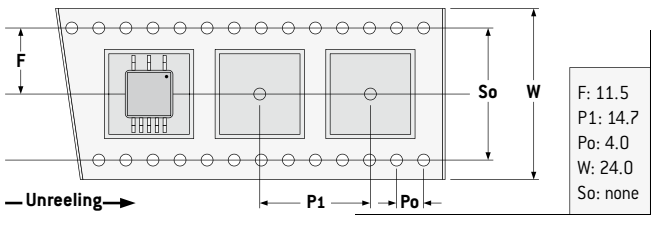


Connections

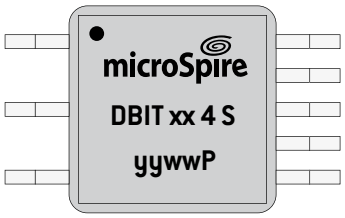


Packaging

Individually packed: 32 parts on 2 layers.
Tape and Reel:
700 units per reel of diameter 330 mm



Marking



yyww: Date code