

# MIL-STD 1553 Interface Transformers - DBIT x 7 S(A)



- In accordance with 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
- Qualified EPPL
- Open-circuit impedance greater than 4 k $\Omega$  over 75 KHz to 1 MHz working frequency
- Frequency range 75 KHz to 1 MHz
- Operating temperature range: -55°C up to +150°C
- Weight: < 5 grams

## Electrical Data (25°C)

ID Code	Turn ratio 1-3 : 4-8	Turn ratio 1-3 : 5-7	DCR max [ $\Omega$ ] 1-3	DCR max [ $\Omega$ ] 4-8	Primary Inductance [mH] min 75 kHz-1V	Open Circuit Impedance min [k $\Omega$ ]	Operating temperature range
DBIT 1 7S*	1,4:1	2:1	2	1,6	7 [1-3]	3	-55°C - 125°C
DBIT 2 7S*	1:1	1,0,707	2	2,2	7 [1-3]	3	-55°C - 125°C
DBIT 3 7S*	1,2:1	1,67:1	2	2	7 [1-3]	3	-55°C - 125°C
DBIT 4 7S*	1:2,5	1,67:1	2	2	7 [1-3]	3	-55°C - 125°C
DBIT 5 7S*	1:2,5	1:1,74	1	2	7 [4-8]	3	-55°C - 125°C
DBIT 6 7S*	2,3:1	3,2:1	2	1	7 [1-3]	3	-55°C - 125°C
DBIT 7 7S*	1,25:1	1,66:1	2	2	7 [1-3]	3	-55°C - 125°C
DBIT 8 7S*	1:2,12	1:1,5	1	2,2	7 [4-8]	3	-55°C - 125°C
DBIT 1 7SA	1,4:1	2:1	1,23	1,1	7 [1-3]	4	-55°C-150°C
DBIT 2 7SA	1:1	1,0,707	1,23	1,6	7 [1-3]	4	-55°C-150°C
DBIT 3 7SA	1,2:1	1,67:1	1,23	1,4	7 [1-3]	4	-55°C-150°C
DBIT 5 7SA	1:2,5	1:1,74	0,6	1,4	7 [4-8]	4	-55°C-150°C
DBIT 6 7SA	2,3:1	3,2:1	1,23	0,8	7 [1-3]	4	-55°C-150°C
DBIT 7 7SA	1,25:1	1,66:1	1,23	1,25	7 [1-3]	4	-55°C-150°C
DBIT 8 7SA	1:2,12	1:1,5	0,7	1,4	7 [4-8]	4	-55°C-150°C

## Notes

Common mode rejection : 45 dB min.

Dielectric withstanding voltage : 100 Vrms.

Insulation resistance : 1,3 - 4,8  
500 V<sub>DC</sub>  
>1000 M $\Omega$

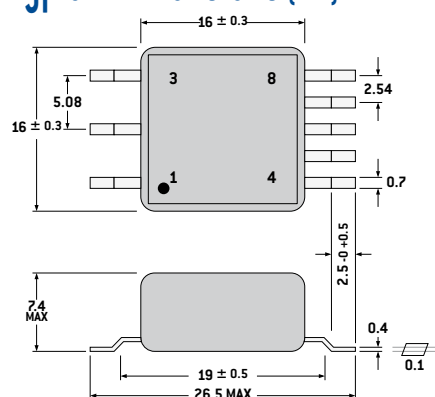
tolerance ratio  $\pm 3\%$ .

\* EPPL products - Detail Specifications MSP003

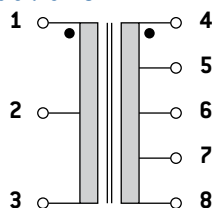
## To Order

DBIT	#	7	x	DBIT # 7 SA
Range	Part 1 to 8	Case height 7	x = S SMD	New version

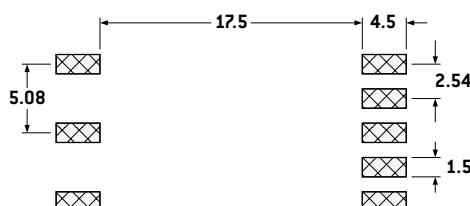
## Typical Dimensions (mm)



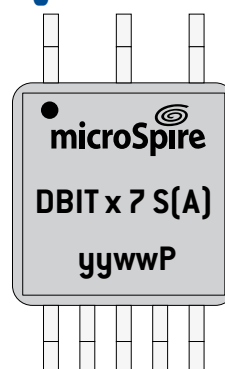
## Connections



## PCB Layout (suggested, DBIT x 7 S)



## Marking



yyww :  
Date code

## Packaging

Individually packed: 32 parts on 2 layers.  
Tape and Reel (DBIT x 7S) :  
300 units per reel of diameter 330 mm

