

# MIL-STD 1553 Interface Transformers - DBIT x 3 S



- In accordance to MIL-STD 1553 A & B
- Meet all the electrical requirements of ManchesterII serial bi-phase data transmission, 1 MHz operation
- Epoxy molding in accordance with outgassing requirements of ECSS-Q-ST-70-02C
- Qualified EPPL issue 22 2012-12-17
- Open-circuit impedance greater than 3 k $\Omega$  [ 4 k $\Omega$  typical value ] from 75 KHz to 1 MHz
- Frequency range 75 KHz to 1 MHz
- Operating temperature range : -55 °C to +125 °C
- Weight : 3 to 3.5 grams

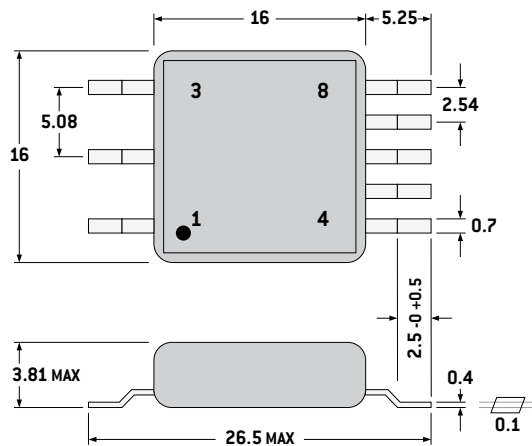
## Electrical Data (25°C)

ID Code	Turn ratio 1-3 : 4-8	Turn ratio 1-3 : 5-7	DCR MAX [ $\Omega$ ] (1-3)	DCR MAX [ $\Omega$ ] (4-8)	Primary Inductance (mH) min at 75 kHz-1V
DBIT 1 3S	1.4 : 1	2 : 1	3	2.3	Lp (1-3) ?
DBIT 2 3S	1 : 1	1 : 0.707	3	3.3	Lp (1-3) ?
DBIT 3 3S	1.2 : 1	1.67 : 1	3	2.7	Lp (1-3) ?
DBIT 4 3S	1 : 2.5	1 : 1.74	1.5	3.5	Lp (4-8) ?
DBIT 5 3S	1 : 2.5	1 : 1.79	1.5	3.5	Lp (4-8) ?
DBIT 6 3S	2.3 : 1	3.2 : 1	3	1.5	Lp (1-3) ?
DBIT 7 3S	1.25 : 1	1.66 : 1	3	3.3	Lp (1-3) ?
DBIT 8 3S	1 : 2.12	1 : 1.5	1.8	3.5	Lp (4-8) ?

## To Order

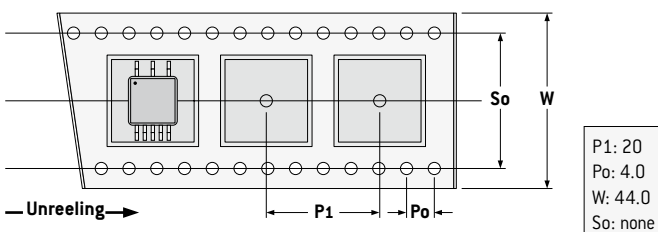
DBIT	#	3	DBIT # 3S
Range	Transceiver type	Case height 3	S SMD

## Typical Dimensions (mm, top view)



## Packaging

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



## Notes

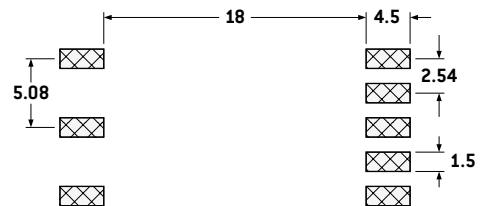
Common mode rejection : 45 dBmin.

Dielectric withstanding voltage : 100 Vrms.

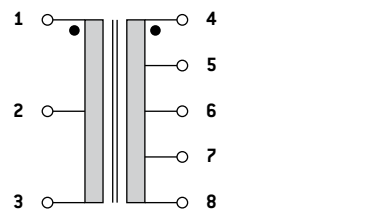
Insulation resistance : 1000 M $\Omega$  min.

tolerance ratio  $\pm$  3%.

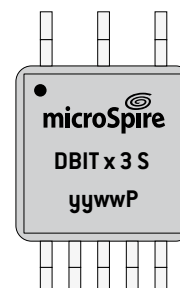
## PCB Layout (suggested)



## Connections



## Marking



yyww :  
Date code