

# Wide Band RF Transformers WRFT 4x Series



- Applied standards: ECSS-Q-ST-70-02C, MIL-STD-202, DO-160 and ESCC 3201 generic specification for space products
- Power input max. 250 mW
- Isolation prim. to sec. 500 V<sub>DC</sub> minimum
- Suitable for I<sub>R</sub> and vapor reflow soldering
- SMD or through-hole cases
- Bandwidth: 100 kHz to 400 MHz
- Operating temperature –55°C to +125°C
- Weight: 1 gram
- Shielded version upon request

## Electrical Data (25°C)

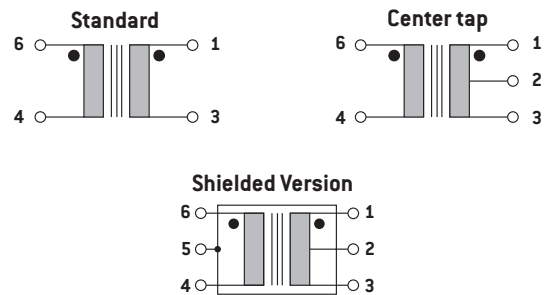
ID Code	Impedance ratio (Ω)	Bandwidth [MHz]		
		3 dB	2 dB	1 dB
WRFT41 1R0 1X	50: 50	0.35 - 400	0.35 - 200	2 - 50
WRFT41 2R0 1X	50: 100	0.30 - 300	0.5 - 250	2 - 230
WRFT42 2R0 1X	50: 100 center tap	0.10 - 200	0.5 - 100	2 - 50
WRFT41 2R5 1X	50: 125	0.10 - 100	0.1 - 50	0.1 - 20
WRFT41 4R0 1X	50: 200	0.20 - 350	0.35 - 300	2 - 100
WRFT42 5R0 1X	50: 250 center tap	0.30 - 300	0.6 - 200	0.5 - 100
WRFT42 8R0 1X	50: 400 center tap	0.10 - 140	0.1 - 90	1 - 60
WRFT41 12R 1X	50: 600	0.20 - 110	0.5 - 80	1 - 50
WRFT41 13R 1X	50: 650	0.30 - 130	0.4 - 85	1 - 65
WRFT42 13R 1X	50: 650 center tap	0.30 - 120	0.7 - 80	5 - 20
WRFT41 16R 1X	50: 800	0.30 - 120	0.7 - 80	5 - 20
WRFT42 16R 1X	50: 800 center tap	0.10 - 75	0.2 - 30	0.3 - 20

## To Order

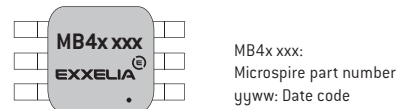
WRFT4		#	###	1	x
Range	1 = without center tap 2 = with center tap	Impedance ratio	Version	x = S surface mount x = P through hole x = Q Shielded	

WRFT4# ### 1x

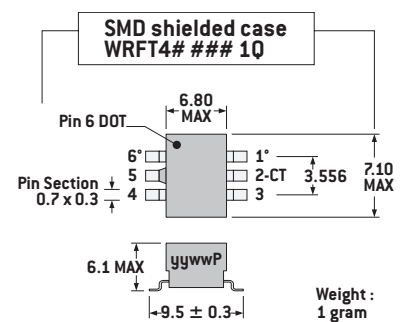
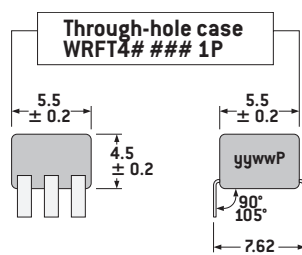
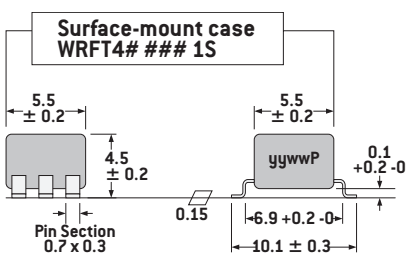
## Connections



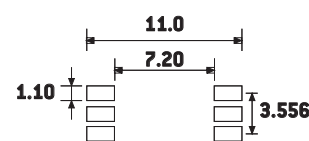
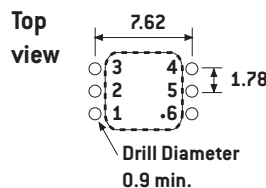
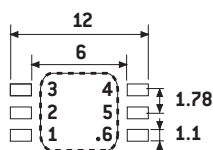
## Marking



## Typical Dimensions (mm)



## PCB Layout (suggested)



## Applications

Impedance matching, DC isolation, balanced-unbalanced mixing, power splitting, coupling and signal inversion

## Packaging

Individually packed in a 160 x 137 x 55 cardboard box. 40 parts on 2 layers