

RF TRANSFORMERS

These microminiature wideband RF Transformers cover the frequency range from 10 KHz to 800 MHz They operate with impedance levels from 12.5 ohms to 800 ohms and provide very low insertion loss, typically less than 0.5 dB.

These microminiature series are available in four basic configurations (1) the primary and secondary windings are DC isolated and the secondary is centertapped (FIG.A),(2) the primary and secondary windings are DC isolated,also they are centertapped(FIG.B),(3) the primary and secondary windings are DC isolated (FIG.C)and(4)the primary and secondary windings are unbalanced(i.e. they both have one end grounded)(FIG.D).

Although specified for a 50 ohm primary impedance they may be operated with a primary impedance as low as 12.5 ohms.The impedance matching ratio is essentially the same over this primary impedance range. However the frequency response may change somewhat.

UT101 --- SERIES

■FEATURES

- Large Dynamic Range: Up to 100 mA DC current
- Miniature Size: 0.27" Long, x0.3" Wide,x0.23"High

■ABSOLUTE MAXIMUM RATINGS

- Maximum DC Current in Primary
- Input Power:
- Operating and Storage Temp.:
- Pin Temperature:

100 mA
500 mW
-20°C to + 85°C
(10 sec.) + 260°C

UT102 --- SERIES

■FEATURES

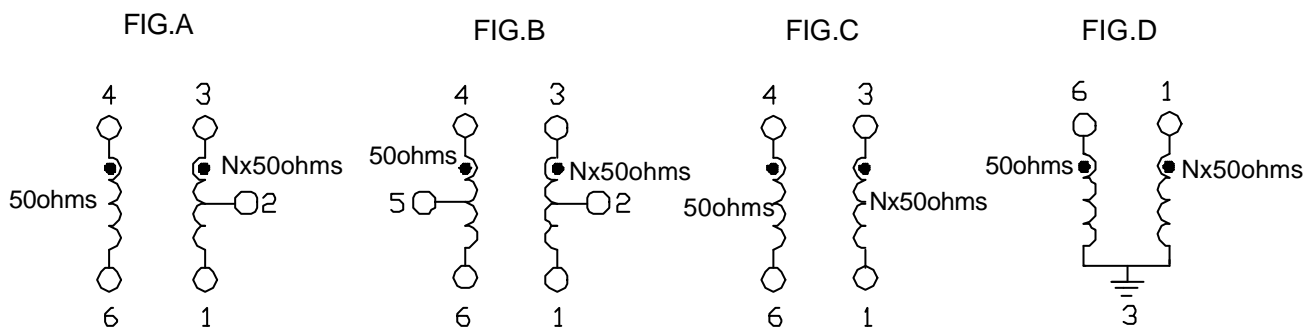
- Miniature Size: 0.27" Long, x0.3" Wide,x0.23"High
- Very Wide Bandwidth: 10 KHz to 800 MHz

■ABSOLUTE MAXIMUM RATINGS

- Input Power:
- Operating and Storage Temp.:
- Pin Temperature:

250 mW
-20°C to + 85°C
(10 sec.) + 260°C

CIRCUIT DIAGRAM & PIN CONNECTION



N=Impedance ratio

Pin 3 must be grounded

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UNIVERSAL MICROELECTRONICS CO.,LTD.
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3,27TH RD.,TAICHUNG INDUSTRIAL PARK,
TAICHUNG,TAIWAN,R.O.C

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12.5 to 800 ohms

CIRCUIT DIAGRAM	MODEL NO.	Ω RATIO	FREQUENCY MHz	INSERTION LOSS		
				3dB MHz	2dB MHz	1dB MHz
	UT10211	1	.05-200	.05-200	.08-150	.2-80
	UT10212	1	.003-300	.003-300	.01-150	.02-50
	UT10213	2	.07-200	.07-200	.1-100	.5-50
	UT10214	2.5	.01-100	.01-100	.02-50	.05-20
	UT10215	3	.05-250	.05-250	.1-200	.5-70
	UT10216	4	.2-350	.2-350	.35-300	2-100
	UT10217	5	.3-300	.3-300	.6-200	.5-100
	UT10218	13	.3-120	.3-120	.7-80	5-20
	UT10219	16	.03-75	.03-75	.06-30	.1-20
	UT10100	4	10-350	10-350	15-300	25-200
	UT10220	1	.004-500	.004-500	.02-200	.1-50
	UT10221	1.5	.075-500	.075-500	.2-100	1-50
	UT10222	2.5	.01-50	.01-50	.025-25	.05-10
	UT10223	4	.05-200	.05-200	.02-50	1-30
	UT10224	25	.02-30	.02-30	.05-20	.1-10
	UT10225	1	.15-400	.15-400	.35-200	2-50
	UT10226	1	.01-150	.01-150	.02-100	.05-50
	UT10227	1.5	.1-300	.1-300	.2-150	.5-80
	UT10228	1.5	.02-100	.02-100	.05-50	.1-25
	UT10229	2.5	.01-100	.01-100	.02-50	.05-20
	UT10230	4	.02-200	.02-200	.05-150	.1-100
	UT10231	9	.15-200	.15-200	.3-150	2-40
	UT10232	16	.3-120	.3-120	.7-80	5-20
	UT10233	36	.03-20	.03-20	.05-10	.1-5
	UT10101	1	8-300	8-300	10-200	25-100
	UT10102	9	2-90	2-90	3-75	6-50
	UT10103	16	7-85	7-85	10-65	15-40
		UT10234	2	.050-600	.050-600	.1-400
UT10235		3	.5-800	.5-800	2-400	-
UT10236		4	.2-600	.2-600	.5-500	2-250
UT10237		8	.15-250	.15-250	.25-200	2-100
UT10238		14	.2-150	.2-150	.5-100	2-50

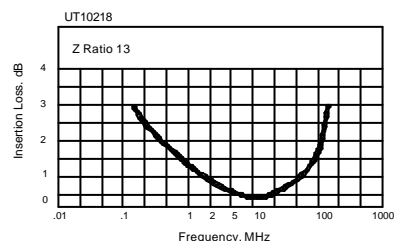
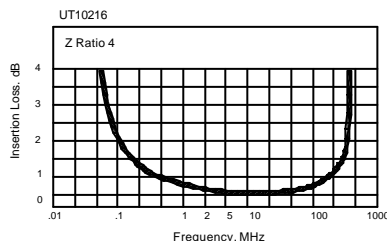
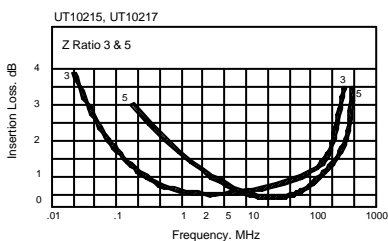
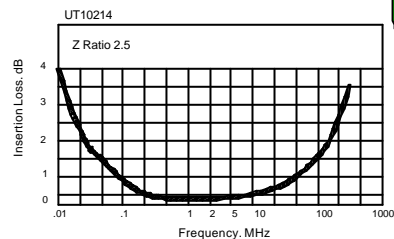
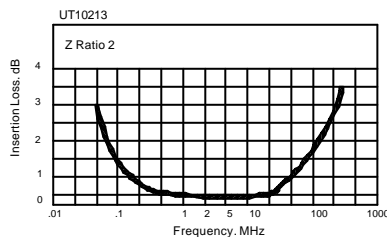
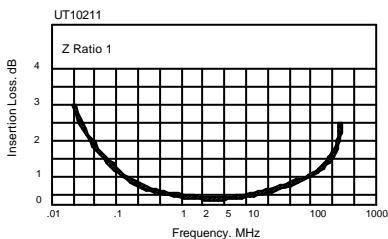
1) Package Style: DIL: Dual-in-line, Package
 SMT: Surface Mount Package,
 LSMT: Large Row-space Surface Mount Package,
 FP: Flat Package (Surface Mount)

3) MODEL No. Description: UT10XXX DIL Package
 UT10XXXS SMT Package
 UT10XXXLS LSMT Package
 UT10XXXF FP Package

2) For RoHS compliant products, the Ordering Code: TG-Model No. ex. TG-UT10211



FREQUENCY RESPONSE CURVE



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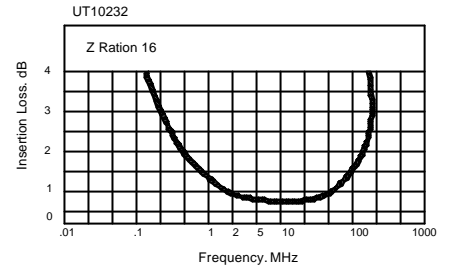
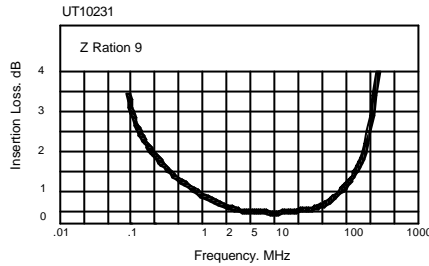
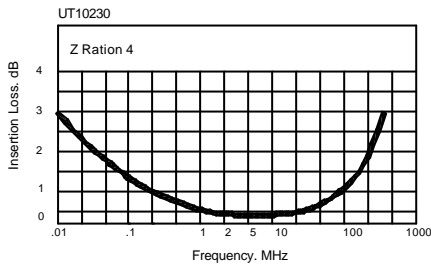
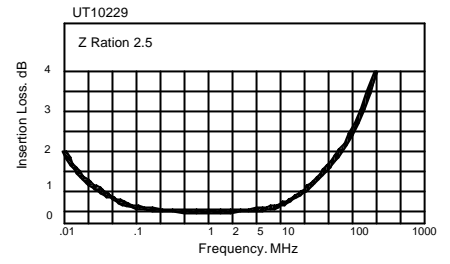
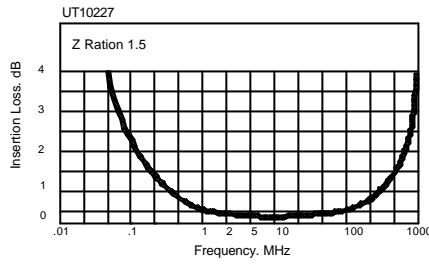
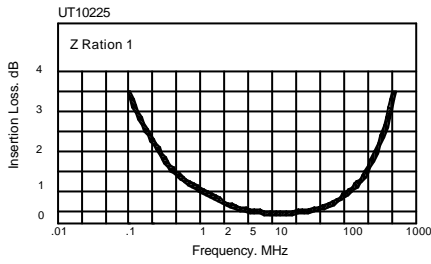
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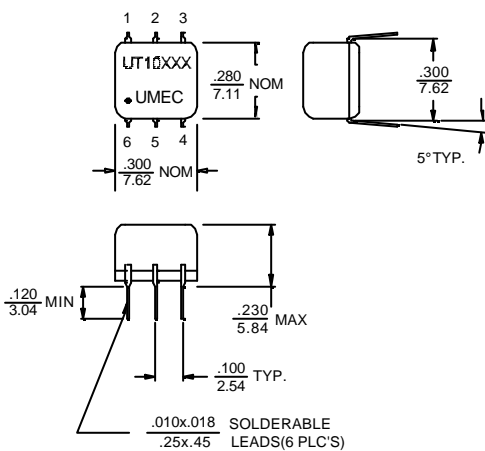
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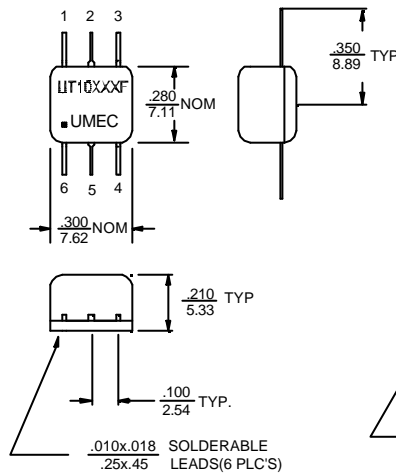


PACKAGE MODE—3 TYPE PACKAGES AS YOUR CHOICE

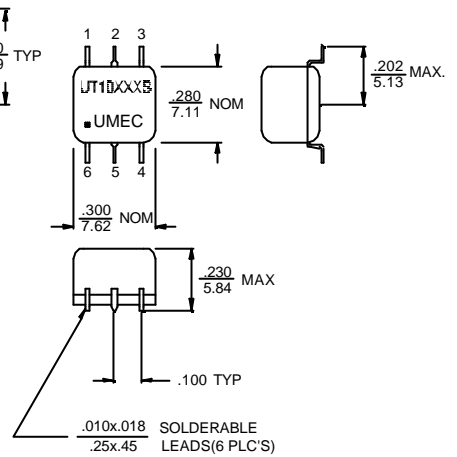
A. DIL



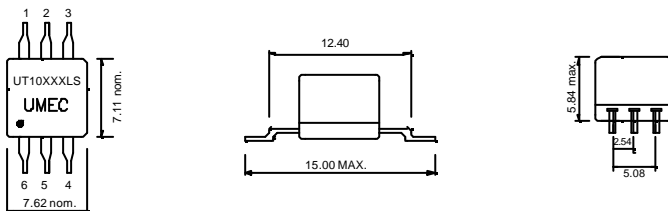
B. FLAT



C. SURFACE MOUNT



D. LARGE ROW-SPACE SURFACE MOUNT



*Specifications are subject to change without prior notice.

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