

Airtron inc. presents the latest specifications on some of its newest, advanced-design microwave ferrite components

0.360 X 0.220 O.D. WAVE GUIDE SIZE

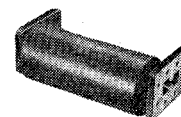
FERRITE ISOLATOR 100 KW (WR-28 GUIDE SIZE)



FREQUENCY RANGE: 34.5 - 35.9 KMC
ISOLATION: 20 db min.
INSERTION LOSS: 1 db max.
INPUT VSWR: 1.15 max. with matched load
POWER HANDLING CAPABILITY: 100 KW peak at 30 psig;
100 watts average into a 2 to 1 load mismatch

ARA-133 WAVE GUIDE SIZE

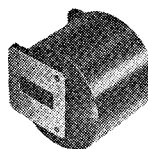
X-BAND FERRITE RIDGED WAVE GUIDE ISOLATOR (ARA-133 GUIDE SIZE)



FREQUENCY RANGE: 7050 to 10,800 mc/s
ISOLATION: 10 db minimum
INSERTION LOSS:5 db maximum
INPUT VSWR: 1.15 maximum with matched load
POWER HANDLING CAPABILITY: 400 watts average into a 2 to 1 load mismatch

1.250 X .625 O.D. WAVE GUIDE SIZE

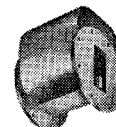
FERRITE MINIATURE ISOLATOR 300 KW (WR-112 GUIDE SIZE)



FREQUENCY RANGE: 8500 to 9600 mcs.
ISOLATION: 15 db min.
INSERTION LOSS: 0.5 db max.
INPUT VSWR: 1.10 max. with matched load
POWER HANDLING CAPABILITY: 300 KW peak at 30 psig;
300 watts average into a 2 to 1 load mismatch

3.000 X 1.500 O.D. WAVE GUIDE SIZE

FERRITE MINIATURE ISOLATOR 400 KW (WR-284 GUIDE SIZE)



FREQUENCY RANGE: 2700 - 2900 MCS
ISOLATION: 15 db minimum
INSERTION LOSS: 0.5 db maximum
INPUT VSWR: 1.10 maximum with matched load
POWER HANDLING CAPABILITY: 400 KW peak
400 watts average with matched termination

2.000 X 1.000 O.D. WAVE GUIDE SIZE

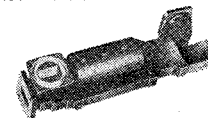
FERRITE ISOLATOR 350 KW (WR-187 GUIDE SIZE)



FREQ. RANGE (mc/s)	ISOLATION db (min.)	INSERTION LOSS db (max.)	INPUT VSWR (max.)	POWER CAPACITY	
				PEAK	AVERAGE
5400 to 5650	15	.5	1.15	350 KW	350 watts
5400 to 5900	10	.5	1.10	350 KW	300 watts

1.000 X .500 O.D. WAVE GUIDE SIZE

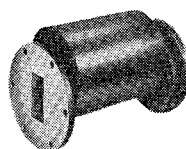
MINIATURE FERRITE PHASE DIFFERENTIAL DUPLEXERS (WR-90 AND WR-112)



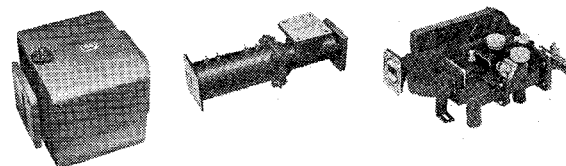
FREQUENCY RANGE: 8500-9600 mc/s
TRANSMITTED INSERTION LOSS:4 db
RECEIVED INSERTION LOSS:5 db
MAGNETRON INPUT VSWR: 1.15
ANTENNA INPUT VSWR: 1.15
LOAD TO MAGNETRON ISOLATION: 25 db
MAGNETRON TO RECEIVER ISOLATION: 25 db
POWER HANDLING CAPABILITIES: WR-90 — 250 kw peak; 300 watts average @ 20 psia pressure. 200 kw peak — 300 watts average @ 15 psia. WR-112 — 600 kw peak; 600 watts average @ 30 psia pressure.

1.50 X .750 O.D. WAVE GUIDE SIZE

FERRITE ISOLATORS FOR MICROWAVE RELAY (WR-137 GUIDE SIZE)



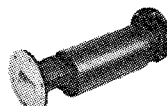
FREQUENCY RANGE: 5925 to 6425 mcs.
ISOLATION: 40 db min.
INSERTION LOSS: 1 db max.
INPUT VSWR: 1.15 max.
POWER HANDLING CAPABILITY: 10 watts average; 10 KW peak into a 2 to 1 load mismatch



Numerous other ferrite designs are available upon request such as the ferrite attenuator, RF switch, and mixer-ferrite duplexers shown above.

1.50 X .750 O.D. WAVE GUIDE SIZE

BROAD BAND FERRITE TEST ISOLATORS



Waveguide Size (O.D.)	Frequency Range (KMC)	Isolation (DB) (Minimum)	Insertion Loss (DB) (Maximum)	Input VSWR (Maximum)	Average Power (Watts)
.360 x .220	26.5—40.0	30	1.0	1.15	5
.500 x .250	18.0—26.5	30	1.0	1.15	10
.702 x .391	12.4—18.0	30	1.0	1.15	10
1.00 x .500	8.2—12.4	30	1.0	1.15	15
1.25 x .625	7.05—10.0	30	1.0	1.15	15
1.50 x .750	5.85—8.2	30	1.0	1.15	20
2.00 x 1.00	3.95—5.85	25	1.0	1.15	20
3.00 x 1.50	2.60—3.95	20	1.0	1.15	25

Airtron inc.

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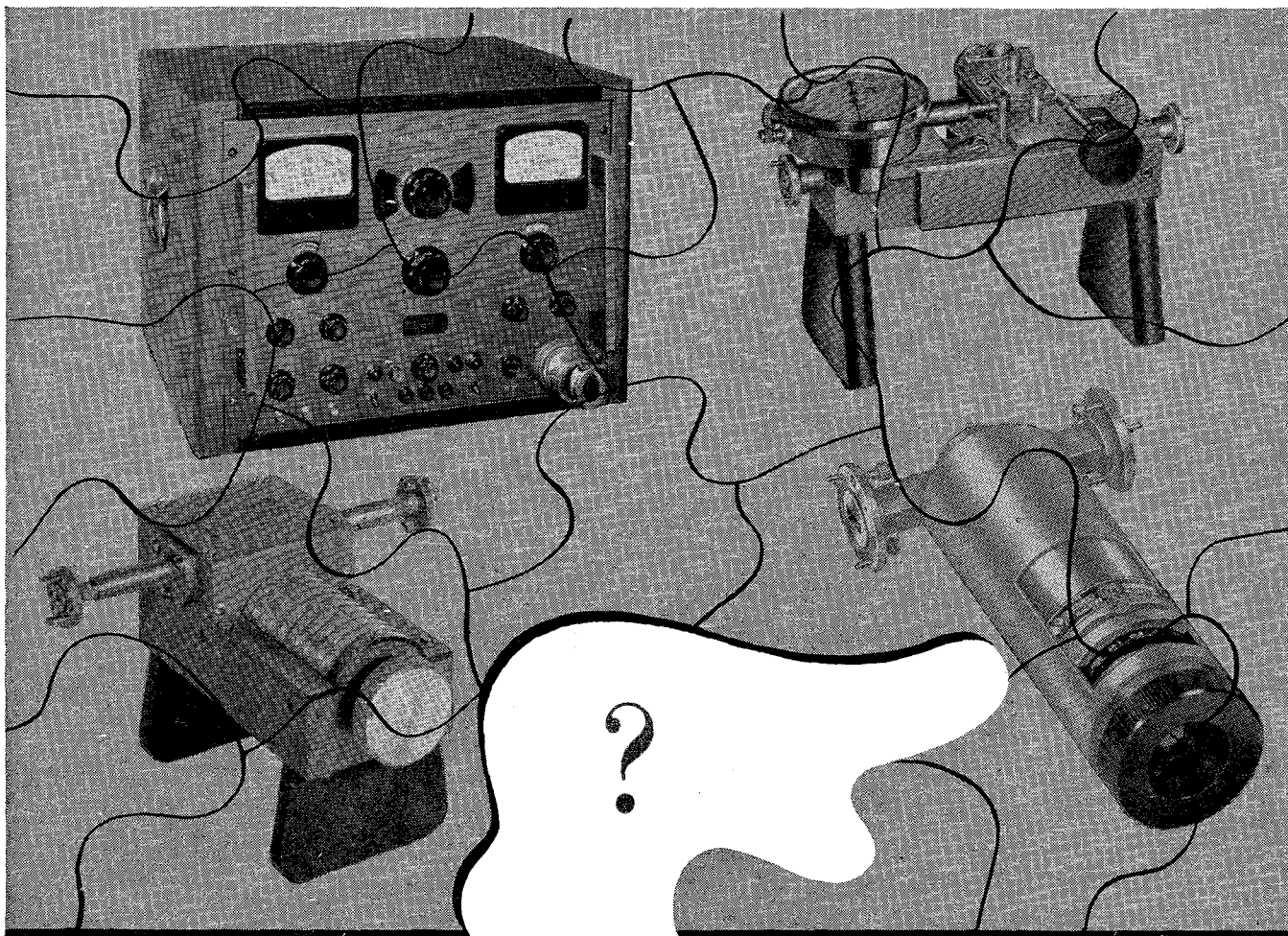
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