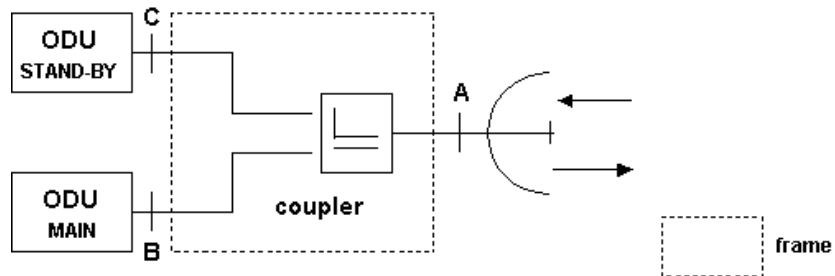


Integrated Coupler with Supporting Frame

Waveguide Couplers used in point-to-point radios wireless system

Electrical characteristics



3 dB
(Balance Version)

Manufacturing P/N	Freq. Band [GHz]	Frequency Range [GHz]	Waveguide Type	Port A Flange type	Port B – C Flange type	Coupling Port A – C [dB]	Insertion Loss Port A – B [dB]	Isolation Port B – C [dB]	Return Loss Port A , B , C [dB]
LM 380 753 028	7/8	7.1 – 8.5	WR112-R84	UDR84	PDR84	3.2 ± 0.7	3.2 ± 0.7	≥ 21	≥ 18
LM 380 753 160	11	10.0 – 11.7	Wr90-R100	UBR100	PBR100	3.2 ± 0.7	3.2 ± 0.7	≥ 21	≥ 18
LM 380 753 140	15	14.4 – 15.35	WR62 R140	UBR140	PBR140	3.2 ± 0.7	3.2 ± 0.7	≥ 21	≥ 18
LM 380 753 142	18	17.7 – 19.7	WR42 R220	UBR220	PBR220	3.2 ± 0.7	3.2 ± 0.7	≥ 21	≥ 18
LM 380 753 214	23	21.2 – 23.6	WR42 R220	UBR220	PBR220	3.2 ± 0.7	3.2 ± 0.7	≥ 21	≥ 18
LM 380 753 215	26	24.5 – 26.5	WR42 R220	UBR220	PBR220	3.2 ± 0.7	3.2 ± 0.7	≥ 21	≥ 18
LM 380 753 306	38	37.5 – 39.5	WR28 R320	UBR320	PBR320	3.2 ± 0.7	3.2 ± 0.7	≥ 21	≥ 18



**10 dB
(Unbalance Version)**

Manufacturing P/N	Freq. Band [GHz]	Frequency Range [GHz]	Waveguide Type	Port A Flange type	Port B – C Flange type	Coupling Port A – C [dB]	Insertion Loss Port A – B [dB]	Isolation Port B – C [dB]	Return Loss Port A , B , C [dB]
LM 380 753 026	7/8	7.1 – 8.5	WR112-R84	UDR84	PDR84	10 ± 1	≤ 1.0	≥ 28	≥ 18
LM 380 753 159	11	10.0 – 11.7	Wr90-R100	UBR100	PBR100	10 ± 1	≤ 1.2	≥ 28	≥ 18
LM 380 753 157	13	12.75 – 13.25	WR75-R120	UBR120	PBR120	10 ± 1	≤ 1.3	≥ 28	≥ 18
LM 380 753 139	15	14.4 – 15.35	WR62 R140	UBR140	PBR140	10 ± 1	≤ 1.3	≥ 28	≥ 18
LM 380 753 141	18	17.7 – 19.7	WR42 R220	UBR220	PBR220	10 ± 1	≤ 1.3	≥ 28	≥ 18
LM 380 753 211	23	21.2 – 23.6	WR42 R220	UBR220	PBR220	10 ± 1	≤ 1.3	≥ 28	≥ 18
LM 380 753 212	26	24.5 – 26.5	WR42 R220	UBR220	PBR220	10 ± 1	≤ 1.3	≥ 28	≥ 18
LM 380 753 213	28	27.5 – 29.5	WR28 R320	UBR320	PBR320	10 ± 1	≤ 1.5	≥ 28	≥ 18
LM 380 753 312	32	31.8 – 33.4	WR28 R320	UBR320	PBR320	10 ± 1	≤ 1.5	≥ 28	≥ 18
LM 380 753 305	38	37.5 – 39.5	WR28 R320	UBR320	PBR320	10 ± 1	≤ 1.5	≥ 28	≥ 18

Mechanical Characteristics:

- 1) Dimensions: (see annex drawing “7GHz”)
- 2) Weight: max 6.5 Kg.

