

Dinesh Micro Waves & Electronics

Xpol bts antenna

Frequency range (MHZ)	1710~1880	1850~1990	1920~2170
Polarization	±45	±45	
Gain (dBi)	17	17.3	17.5
Electrical downtilt (°)	0~ 10	0~ 10	0~ 10
Half-power beam width (°)	Hor.:67 Ver.:7.5	Hor.:65 Ver.:7	Hor.:62 Ver.:6.5
Sidelobe suppression (dB) (First sidelobe above horizon)	0°...5°...10° 0° 16...15...14	0°...5°...10° 16...15...14	0°...5°...10° 16...15...15
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio(dB)	>15(±60° >10)		
Impedance (Ω)	50		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
VSWR	≤1.5		
Intermodulation IM3 (dBm) (2×43dBm carrier)	<-107		
Maximum input power (W)	300		
Lightning protection	DC Ground		



Mechanical specifications

Dimensions (L/W/D)	1360×160×80
Connectors	2×7/16DIN-Female
Weight	11 Kg
Rated wind velocity (m/s)	60

Dinesh Micro Waves & Electronics

No. 347, (C4 & C5) SLI Complex, 7th Street, Gandhipuram

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Electrical specifications

Frequency range (MHZ)	1710~1880	1850~1990	1920~2170
Polarization	±45	±45	
Gain (dBi)	17	17.3	17.5
Electrical downtilt (°)	0~ 10	0~ 10	0~ 10
Half-power beam width (°)	Hor.:67 Ver.:7.5	Hor.:65 Ver.:7	Hor.:62 Ver.:6.5
Sidelobe suppression (dB) (First sidelobe above horizon)	0°...6°...12° 15...15...14	0°...6°...12° 2° 15...16...12	0°...6°...12° 15...16...12
Front-to-back ratio (dB)	≥27		
Isolation (dB)	≥30		
Cross-polar ratio(dB)	>15(±60°>10)		
Impedance (Ω)	50		
Cross-polar ratio (dB)	≥15(±60°≥10)		
VSWR	≤1.5		
Intermodulation IM3 (dBm) (2×43dBm carrier)	<-107		
Maximum input power (W)	300		
Lightning protection	DC Ground		



Mechanical specifications

Dimensions (L/W/D)	760×280×85
Connectors	2×7/16DIN-Female
Weight	15 Kg
Rated wind velocity (m/s)	60

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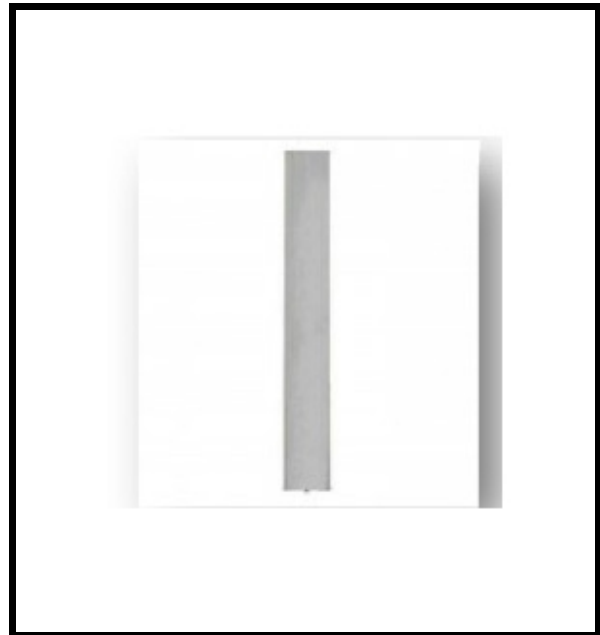
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Electrical specifications

Frequency range (MHZ)	806~890	890~960
Polarization	±45°	±45°
Gain (dBi)	15.8	16.1
Electrical downtilt (°)	0~8	0~8
Half-power beam width (°)	Hor:90 Vert:7.5	Hor:88 Vert:7
Sidelobe suppression (dB) (First sidelobe above horizon)	0°...4°...8° 15...15...15	0°...4°...8° 16...15...15
Front-to-back ratio (dB)	≥23	
Isolation (dB)	≥30	
Cross-polar ratio(dB)	>15(±60°>10)	
Impedance (Ω)	50	
Cross-polar ratio (dB)	≥15(±60°≥10)	
VSWR	≤1.5	
Intermodulation IM3 (dBm) (2×43dBm carrier)	<-107	
Maximum input power (W)	400	
Lightning protection	DC Ground	



Mechanical specifications

Dimensions (L/W/D)	2580×268×138
Connectors	2×7/16DIN-Female
Weight	23 Kg
Rated wind velocity (m/s)	60

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Electrical specifications

Frequency range (MHZ)	806~890	890~960
Polarization	±45°	±45°
Gain (dBi)	19.9	20.4
Electrical downtilt (°)	0~10	0~10
Half-power beam width (°)	Hor:34 Vert:7.5	Hor:32 Vert:7
Sidelobe suppression (dB) (First sidelobe above horizon)	0°...5°...10° 15...15...15	0°...5°...10° 16...15...15
Front-to-back ratio (dB)	≥27	
Isolation (dB)	≥30	
Cross-polar ratio(dB)	≥15(±30°≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (dBm) (2×43dBm carrier)	<-107	
Maximum input power (W)	400 W	
Lightning protection	DC Ground	



Mechanical specifications

Dimensions (L/W/D)	2520×515×100
Connectors	2×7/16DIN-Female
Weight	23 Kg
Rated wind velocity (m/s)	60
Weight	60

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Electrical specifications

Frequency range (MHZ)	806~890	890~960
Polarization	$\pm 45^\circ$	$\pm 45^\circ$
Gain (dBi)	17.5	17.8
Electrical downtilt ($^\circ$)	0~10	0~10
Half-power beam width ($^\circ$)	Hor:65 \pm 3 Vert:7.5 \pm 1	Hor:65 \pm 3 Vert:7.5 \pm 1
Sidelobe suppression (dB) (First sidelobe above horizon)	0 $^\circ$...5 $^\circ$...10 $^\circ$ 15...15...15	0 $^\circ$...5 $^\circ$...10 $^\circ$ 16...15...15
Front-to-back ratio (dB)	Copolar \geq 25	
Isolation (dB)	\geq 30	
Cross-polar ratio(dB)	\geq 15($\pm 60^\circ \geq 10$)	
Impedance (Ω)	50	
VSWR	\leq 1.4	
Intermodulation IM3 (dBm) (2 \times 43dBm carrier)	$<$ -107	
Maximum input power (W)	400 W	
Lightning protection	DC Ground	



Mechanical specifications

Dimensions (L/W/D)	2580 \times 268 \times 138
Connectors	2 \times 7/16DIN-Female
Weight	23 Kg
Rated wind velocity (m/s)	60

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