

MICROCEPTOR * SERIES

BRICKWALL RADAR

SPECIFICATIONS**	MODELS QD or DL-5450 31 Channels	MODELS QD or DL-5462 31 Channels	MODELS QD or DL-5451 31 Channels	MODELS QD or DL-5453 31 Channels
Input Frequency***	2500-2686 MHz	2500-2686 MHz	2500-2686 MHz	2500-2686 MHz
Downconverter Gain	36dB \pm 2 dB	25dB \pm 2 dB	32dB \pm 2 dB	20dB \pm 2 dB
Receiver Gain				
DL-54XX	49 dB	38 dB	45 dB	33 dB
QD-54XX	52 dB	41 dB	48 dB	36 dB
Noise Figure				
MMDS	3.0 dB	4.0 dB	4.0 dB	4.0 dB
L.O. Specifications				
Set Point Accuracy	2278.000 MHz \leq \pm 10 KHz	2278.000 MHz \leq \pm 10 KHz	2278.000 MHz \leq \pm 10 KHz	2278.000 MHz \leq \pm 10 KHz
Frequency Stability (-40° C to 60° C)	\pm 30 KHz	\pm 30 KHz	\pm 30 KHz	\pm 30 KHz
Phase Noise				
@ 100 Hz	>65 dBc/Hz	>65 dBc/Hz	>65 dBc/Hz	>65 dBc/Hz
@ 1 KHz	>85 dBc/Hz	>85 dBc/Hz	>85 dBc/Hz	>85 dBc/Hz
@ 10 KHz	>93 dBc/Hz	>93 dBc/Hz	>93 dBc/Hz	>93 dBc/Hz
@ 100 KHz	>107 dBc/Hz	>107 dBc/Hz	>107 dBc/Hz	>107 dBc/Hz
@ 1 MHz	>120 dBc/Hz	>120 dBc/Hz	>120 dBc/Hz	>120 dBc/Hz
Response Specifications				
Output Frequency***	222 - 408 MHz	222 - 408 MHz	222 - 408 MHz	222 - 408 MHz
Flatness	\pm 2 dB	\pm 2 dB	\pm 2 dB	\pm 2 dB
Group Delay Distortion per 6 MHz Ch.	\leq 10 ns	\leq 10 ns	\leq 10 ns	\leq 10 ns
PCS Rejection 1930-1990 MHz PRE-LNA	>100 dB	>100 dB	>100 dB	>100 dB
WCS Rejection 2305-2360 MHz				
PRE-LNA	>70 dB	>70 dB	>70 dB	>70 dB
RF/IF Combined	>100 dB	>100 dB	>100 dB	>100 dB
IF Rejection	>80 dB	>80 dB	>80 dB	>80 dB
Radar Rejection - @ Output				
@ 427 MHz (2710 MHz Input)				
PRE-LNA	>35 dB	>35 dB	>35 dB	>35 dB
RF/IF Combined	>40 dB	>40 dB	>40 dB	>40 dB
@ 457 MHz (2735 MHz Input)				
PRE-LNA	>40 dB	>40 dB	>40 dB	>40 dB
RF/IF Combined	>50 dB	>50 dB	>50 dB	>50 dB
Microwave Oven Rejection - @ Output				
@ 174 MHz (2452 MHz Input)				
PRE-LNA	>25 dB	>25 dB	>25 dB	>25 dB
RF/IF Combined	>50 dB	>50 dB	>50 dB	>50 dB
@ 186 MHz (2464 MHz Input)				
PRE-LNA	>20 dB	>20 dB	>20 dB	>20 dB
RF/IF Combined	>45 dB	>45 dB	>45 dB	>45 dB
Output Impedance	75 Ohms	75 Ohms	75 Ohms	75 Ohms
Output Connector	F Female	F Female	F Female	F Female
Power Supply				
Voltage	+15 to 24 VDC	+15 to 24 VDC	+15 to 24 VDC	+15 to 24 VDC
Current	220 mA	240 mA	240 mA	240 mA

*Patents Pending

**Specifications subject to change without notice.

***Consult factory for different input/output frequency conversion options.

*This product may be covered by one or more of the following U.S. Patents:
5,202,699, 5,300,941, 5,394,115, 5,402,138, 5,448,255, 5,313,220
U.S. & Australian Patents Pending



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MICROCEPTOR * SERIES BRICKWALL RADAR

SPECIFICATIONS**

MODELS QD -5650 31 Channels

Input Frequency***	2500-2686 MHz
Downconverter Gain	36dB \pm 2 dB
Receiver Gain	
QD-5650	52 dB
Noise Figure	
MMDS	3.0 dB
L.O. Specifications	
Set Point Accuracy	2278.000 MHz \leq \pm 10 KHz
Frequency Stability (-40 ^o C to 60 ^o C)	\pm 30 KHz
Phase Noise	
@ 100 Hz	>65 dBc/Hz
@ 1 KHz	>85 dBc/Hz
@ 10 KHz	>93 dBc/Hz
@ 100 KHz	>107 dBc/Hz
@ 1 MHz	>120 dBc/Hz
Response Specifications	
Output Frequency***	
MMDS/ITFS	222 - 408 MHz
Flatness	
MMDS/ITFS	\pm 2 dB
Group Delay Distortion per 6 MHz Ch.	\leq \pm 10 ns
PCS Rejection 1930-1990 MHz PRE-LNA	>100 dB
WCS Rejection 2305-2360 MHz	
PRE-LNA	>70 dB
RF/IF Combined	>100 dB
IF Rejection	>80 dB
Radar Rejection - @ Output	
@ 427 MHz (2710 MHz Input)	
PRE-LNA	>37 dB
RF/IF Combined	>40 dB
@ 457 MHz (2735 MHz Input)	
PRE-LNA	>40 dB
RF/IF Combined	>50 dB
Microwave Oven Rejection - @ Output	
@ 174 MHz (2452 MHz Input)	
PRE-LNA	>25 dB
RF/IF Combined	>50 dB
@ 186 MHz (2464 MHz Input)	
PRE-LNA	>20 dB
RF/IF Combined	>45 dB
Output Impedance	75 Ohms
Output Connector	F Female
Power Supply	
Voltage	+15 to 24 VDC
Current	220 mA

*Patents Pending

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MICROCEPTOR * SERIES BRICKWALL RADAR

SPECIFICATIONS**	MODELS QD or DL-5650 31 Channels	MODELS QD or DL-5653 31 Channels
Input Frequency***	2500-2686 MHz	2500-2686 MHz
Downconverter Gain	36dB \pm 2 dB	20dB \pm 2 dB
Receiver Gain		
DL-54XX	49 dB	33 dB
QD-54XX	52 dB	36 dB
Noise Figure		
MMDS	3.0 dB	4.0 dB
L.O. Specifications		
Set Point Accuracy	2278.000 MHz \leq \pm 10 KHz	2278.000 MHz \leq \pm 10 KHz
Frequency Stability (-40 ^o C to 60 ^o C)	\pm 30 KHz	\pm 30 KHz
Phase Noise		
@ 100 Hz	>65 dBc/Hz	>65 dBc/Hz
@ 1 KHz	>85 dBc/Hz	>85 dBc/Hz
@ 10 KHz	>93 dBc/Hz	>93 dBc/Hz
@ 100 KHz	>107 dBc/Hz	>107 dBc/Hz
@ 1 MHz	>120 dBc/Hz	>120 dBc/Hz
Response Specifications		
Output Frequency***		
MMDS/ITFS	222 - 408 MHz	222 - 408 MHz
Flatness		
MMDS/ITFS	\pm 2 dB	\pm 2 dB
Group Delay Distortion per 6 MHz Ch.	\leq \pm 10 ns	\leq \pm 10 ns
PCS Rejection 1930-1990 MHz PRE-LNA	>100 dB	>100 dB
WCS Rejection 2305-2360 MHz		
PRE-LNA	>70 dB	>70 dB
RF/IF Combined	>100 dB	>100 dB
IF Rejection	>80 dB	>80 dB
Radar Rejection - @ Output		
@ 427 MHz (2710 MHz Input)		
PRE-LNA	>35 dB	>35 dB
RF/IF Combined	>40 dB	>40 dB
@ 457 MHz (2735 MHz Input)		
PRE-LNA	>40 dB	>40 dB
RF/IF Combined	>50 dB	>50 dB
Microwave Oven Rejection - @ Output		
@ 174 MHz (2452 MHz Input)		
PRE-LNA	>25 dB	>25 dB
RF/IF Combined	>50 dB	>50 dB
@ 186 MHz (2464 MHz Input)		
PRE-LNA	>20 dB	>20 dB
RF/IF Combined	>45 dB	>45 dB
Output Impedance	75 Ohms	75 Ohms
Output Connector	F Female	F Female
Power Supply		
Voltage	+15 to 24 VDC	+15 to 24 VDC
Current	220 mA	240 mA

*Patents Pending

**Specifications subject to change without notice.

***Consult factory for different input/output frequency conversion options.