

Model Number:

ETL Systems

New technologies





Model Number: HWK-G1S-15-D44

		RF Parameters						
Routing		Distributive Module						
Frequency Range		500 to 3150 MHz (Extended L-band)						
Capacity		Up to 4 matrix modules in 1U parent chassis – each 4 x Input and 4 x Output.						
Switching Time		< 50ms (From receipt of a command to implementation of path change)						
RF Connectors		50 Ω SMA	50 Ω BNC	75 Ω BNC	75 Ω F-type			
Gain (dB) Typ, mean across band		0±1	0±1	0±1	0±1			
Gain Flatness (dB)	850-2450 MHz	±0.75	±0.75	±1.0	±1.0			
	500-3150 MHz	±2.0	±2.0	±2.5	±2.5			
Am. 20 Mile	< 2150 MHz	±0.15	±0.15	±0.3	±0.3			
Any 36 MHz	> 2150 MHz	±0.25	±0.25	±0.5	±0.5			
Input Return	Тур.	14	14	12	12			
Loss (dB)	Min	10	10	8	8			
Output Return Loss (dB)	Тур.	14	14	12	12			
	Min	10	10	8	8			
Isolation (dB)	Input-Input	55 dB						
Min. between	Output-Output	55 dB						
any two ports	Input-Output	50dB						
Noise Figure (dB)	850-2450 MHz	7 dB with one input routed to one output						
	500-3150 MHz	9 dB with one input routed to one output						
1dB GCP	850-2450 MHz	+0 dBm						
(dBm) Output power, Typical.	500-3150 MHz	-3 dBm						
OIP3 (dBm),	850-2450 MHz	+ 15 dBm						
Typical.	500-3150 MHz	+ 12 dBm						
OIP2 (dBm),Typical.		+ 22 dBm						
Group Delay		<1.0 ns						
PSU Redundancy		Dual redundant and alarmed Diode OR.						
Matrix Module		Distributive: Field replaceable						
	·		System Cont	rol				
Remote Control & Monitoring		Ethernet via RJ45 with HTTPS & SNMPv3, 10BaseT/100/1000BaseTx. ETL TCP/IP, SNMP & Web browser interface. Via parent chassis						
			Physical & Enviro	onment				
Dimensions		4 x Genus 1U Module Slots (4 modules max per GENUS 1U chassis, see separate Genus 1U chassis datasheet for chassis specifications).						
Weight / Colour		<0.5 kg / RAL9003—White (Semi-matte)						
Temperature		Operating: 0 to 45°C / Storage: -20°C to +75°C						
Location		Indoor use only						
Humidity		20 to 90% non-condensing						





Altitude

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Model Number: HWK-G1S-15-C44

	RF Parameters							
Routing		Combining Module						
Frequency Range		500 to 3150 MHz (Extended L-band)						
Capacity		Up to 4 matrix modules in 1U parent chassis- each 4 x Input and 4 x Output.						
Switching Time		< 50ms (From receipt of a command to implementation of path change)						
RF Connectors		50 Ω SMA	50 Ω BNC	75 Ω BNC	75 Ω F-type			
Gain (dB) Typ, mean across band		0±1	0±1	0±1	0±1			
Gain Flatness	850-2450 MHz	±1.0	±1.0	±1.25	±1.25			
(dB)	500-3150 MHz	±2.5	±2.5	±3.0	±3.0			
	< 2150 MHz	±0.15	±0.15	±0.3	±0.3			
Any 36 MHz	> 2150 MHz	±0.25	±0.25	±0.5	±0.5			
Input Return	Тур.	14	14	12	12			
Loss (dB)	Min	10	10	8	8			
Output Return	Тур.	14	14	12	12			
Loss (dB)	Min	10	10	8	8			
Isolation (dB)	Input-Input	55 dB						
Min. between	Output-Output	55 dB						
any two ports	Input-Output	50 dB						
Noise Figure	850-2450 MHz	22 dB with one input routed to one output						
(dB)	500-3150 MHz	25 dB with one input routed to one output						
1dB GCP	850-2450 MHz	+15 dBm						
(dBm) Output power, Typical.	500-3150 MHz	+ 12dBm						
OIP3 (dBm),	850-2450 MHz	+ 30 dBm						
Typical.	500-3150 MHz	+ 25 dBm						
OIP2 (dBm), Typical.		+ 40 dBm						
Group Delay		<1.0 ns						
PSU Redundancy		Dual redundant and alarmed Diode OR.						
Matrix Module		Combining: Field replaceable						
		System Control						
Remote Control	& Monitoring	Ethernet via RJ45 with HTTPS & SNMPv3, 10BaseT/100/1000BaseTx. ETL TCP/IP, SNMP & Web browser interface. Via parent chassis						
			Physical & Envir	ronment				
Dimensions		4 x Genus 1U Module Slots (4 modules max per GENUS 1U chassis, see separate Genus 1U chassis datasheet for chassis specifications).						
Weight / Colour		<0.5 kg / RAL9003—White (Semi-matte)						
Temperature		Operating: 0 to 45°C / Storage: -20°C to +75°C						
Location		Indoor use only						
Humidity		20 to 90% non-condensing						
Altitude		2,000 feet AMSL (Operational) 8,000 feet AMSL (Storage) Above Mean Sea Level						
Spec Version		1.0						
Nets 4. The second		regular reviews and will be updated from time to						

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.



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