

PRODUCT INFORMATION
& SPECIFICATIONS

DIAMOND SERIES

MODEL 360 KA-MULTIBAND NANOBUC

16W + 25W PSAT

GaN Technology

28 - 31 GHz

Internal Lineariser

Guaranteed Linear Power < 2dB Below PSAT



360 16/25W KA-MULTIBAND NANOBU

MODEL NUMBER IN PAGE TEMPLATE

SPECIFICATIONS	25W Version 01-360A	16W Version 01-360B																																
FR Frequency	28.0 to 31.0 GHz, in switchable bands																																	
IF Frequency	950 - 2000 MHz, user selectable																																	
Output Power (at 25°C)	25W (44 dBm) Psat, typical 15W (42 dBm) Plin ¹ , minimum	16W (42 dBm) Psat, typical 10W (40 dBm) Plin ¹ , minimum																																
Gain	65 dB (typ) at 30GHz, 25°C																																	
Gain Flatness	±0.5 dB (40 MHz Channel) at 25°C ±1.5 dB (per 1000 MHz Band) at 25°C																																	
Gain Variation	± 1.5 dB over -30 to +55°C, at 30GHz																																	
Input Connector	N(f)																																	
Input Return Loss	14 dB																																	
Output Connector	WR28 (PBR320 Flange)																																	
Output Return Loss	14 dB																																	
External Reference	10 MHz at 0 dBm ± 3 dB, via L-band Input																																	
Phase Noise	100 Hz -65 dBc/Hz 1 kHz -75 dBc/Hz 10 kHz -85 dBc/Hz 100 kHz -95 dBc/Hz 1 MHz -115 dBc/Hz																																	
Output Spurious	-60 dBc at Plin Signal dependant, Out-of-band, -20 dBm																																	
Tx Band Noise Density	-80 dBm/Hz																																	
Rx Band Noise Density	-140 dBm/Hz (up to 21.2 GHz)																																	
Monitor & Control	Options: RS485/422, or RS485/Ethernet • Gain Control +0/-31dB, 0.25dB step • Output Power Detector • Summary Alarm • Over Temperature Protection																																	
M & C Connector	MS27466T11F35S (Ethernet option in brackets) <table><tr><th>PIN</th><th>Function</th><th>PIN</th><th>Function</th></tr><tr><td>1</td><td>RS485+ / RS422 Tx+</td><td>8</td><td>GND/Tx Inhibit Return</td></tr><tr><td>2</td><td>RS485- / RS422 Tx+</td><td>9</td><td>MUTE N/O (Ethernet Tx+)</td></tr><tr><td>3</td><td>Reserved</td><td>10</td><td>MUTE COM (Ethernet Tx-)</td></tr><tr><td>4</td><td>Alarm N/O</td><td>11</td><td>Reserved</td></tr><tr><td>5</td><td>Alarm COM</td><td>12</td><td>RS422 Rx+ (Ethernet Rx+)</td></tr><tr><td>6</td><td>Alarm N/C</td><td>13</td><td>RS422 Rx- (Ethernet Rx-)</td></tr><tr><td>7</td><td>Tx Inhibit</td><td></td><td></td></tr></table>		PIN	Function	PIN	Function	1	RS485+ / RS422 Tx+	8	GND/Tx Inhibit Return	2	RS485- / RS422 Tx+	9	MUTE N/O (Ethernet Tx+)	3	Reserved	10	MUTE COM (Ethernet Tx-)	4	Alarm N/O	11	Reserved	5	Alarm COM	12	RS422 Rx+ (Ethernet Rx+)	6	Alarm N/C	13	RS422 Rx- (Ethernet Rx-)	7	Tx Inhibit		
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Power Connector	D38999/20 FE6PN																																	
Input Voltage	+18 to 50V DC, isolated																																	
Power Consumption	MS27466T13F04PA <table><tr><th>PIN</th><th>Function</th><th>PIN</th><th>Function</th></tr><tr><td>A</td><td>+V DC</td><td>C</td><td>DC Return</td></tr><tr><td>B</td><td>+V DC</td><td>D</td><td>DC Return</td></tr></table>		PIN	Function	PIN	Function	A	+V DC	C	DC Return	B	+V DC	D	DC Return																				
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Operating Temperature	-30 to +55°C																																	
Cooling System	2 x DC Brushless High Reliability Fans																																	
Size	180L x 100W x 150H mm																																	
Weight	3.5 kg																																	