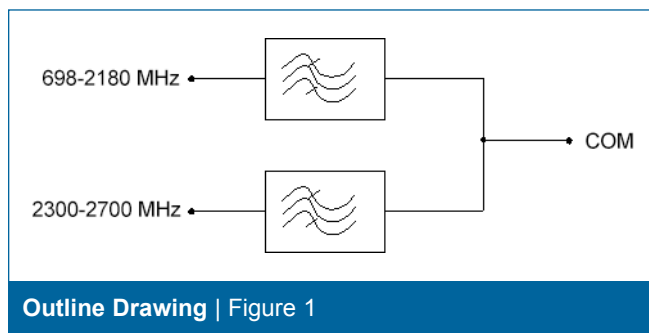


GX Dual-Band External Combiner

CORNING

features and benefits |

Supported frequencies	698-2180 MHz 2300-2700 MHz
Maximizes system performance	Designed for feeder sharing and colocation purposes Decoupling of up to two Tx/Rx signals onto one common antenna High power handling and low insertion loss High output power rating
Minimizes interference	High isolation between ports
Low passive intermodulation	-160 dBc
Built-in lightning protection	Suitable for outdoor environments
Mounting	Suitable for indoor and outdoor applications Wall- or pole-mounting



The GX dual-band external combiner is designed for feeder sharing purposes. It filters and combines low- and high-band frequency signals and transmits them over a single broadband antenna.

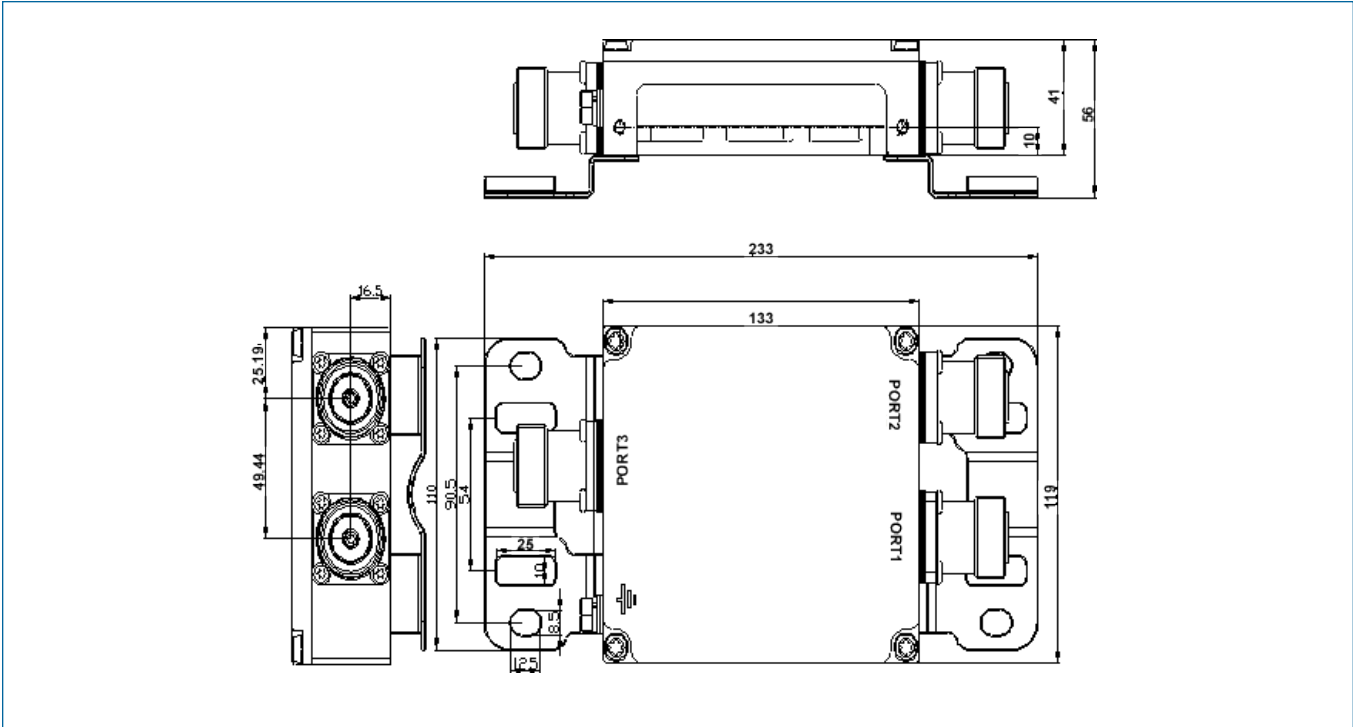
The dual-band combiner can be used in deployments including both GX quad-band and dual-band (supporting the WCS and 2500 MHz TDD bands) remotes, enabling multiple high- and low-range frequencies to be transmitted over a common DAS infrastructure.



GX Dual-Band External Combiner



dimensions |



External Combiner Dimensions (in mm) | Figure 3

GX Dual-Band External Combiner



specifications |

Electrical

Supported Passband Frequency Range (MHz)	698-2180	2300-2700
Power average (W)	300	160
Power peak (W)	1600	1000
Insertion loss (dB)	≤ 0.5	
Passband ripple (dB)	≤ 0.3	
Return loss (dB)	≥ 20 (typical)	
Isolation between all bands (dB)	≥ 50 (698-2180 MHz/2300-2700 MHz)	
Intermodulation (dBc)	≤ -160 at 2 x 43	
Impedance	50 ohm	
RF connectors	Interfaces to GX: Two 7/16 DIN-female connector ports Interface to wideband antenna: One 7/16 DIN-female connector port	

Physical Specifications

Mounting	Wall- and pole-mount
Dimensions (H x W x D)	5.2 x 4.7 x 1.65 in (133 x 119 x 41 mm)
Weight	5.5 lb (2.5 kg)

Environmental

Operating temperature	-40 to 70°C (-40 to 158°F)
Operational humidity	Up to 95 percent
Environment class	IP67 (indoor or outdoor)
Lightning protection	DC grounded; 20 kA, 8/20 μs
MTBF	> 1,000,000
RoHS	Compliant

GX Dual-Band External Combiner



ordering information |

Part Number	Description
AK-GX-LH-COMB	GX Dual-Band External Combiner for low- and high-band frequency

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