

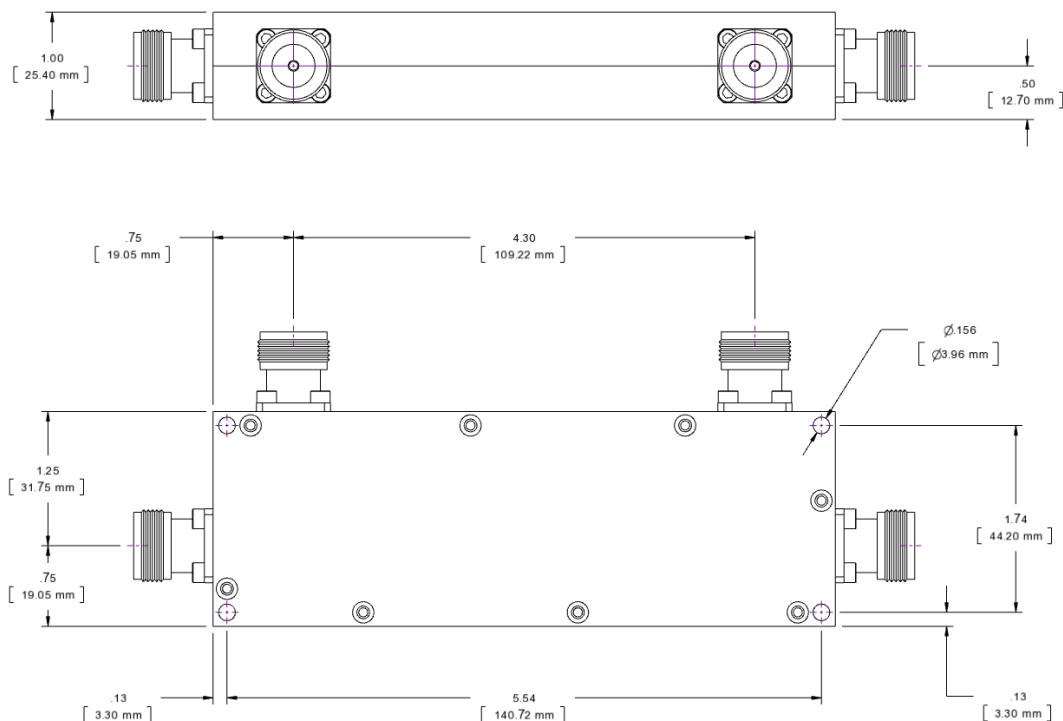
Product Specification



Image is representative.

Model Number	C-2352-dB-N	Release version:	8/29/2019
Description	Dual Directional Coupler Series, 130-520MHz, N-Female		
Outline Drawing Number	OL-5352-N		

Outline Drawing



UNLESS OTHERWISE SPECIFIED: Dimensions are in inches, [mm] shown for convenience.
 Tolerances on 2-pl decimals: $\pm .03$. 3-pl decimals: $\pm .015$. Angles: $\pm 1^\circ$.

Specifications and outline drawing subject to change.

WM-F32D

Issued: 2/14/19
 Revised: NEW

Rev. 1.0
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Electrical Specifications

Parameter	Target Specification	Notes		
Frequency Range	130 – 520 MHz	Useable from 80MHz with ~2 dB roll-down in coupling.		
	Nominal Coupling	Forward Power ¹	Reverse Power	Measured Insertion Loss
Model: C-1352-03-N	3.5 ± 1.0 dB	30 W, max	30 W, max	Not applicable
Model: C-1352-05-N	5 ± 1.0 dB	45 W, max	45 W, max	2.2 dB, max
Model: C-1352-06-N	6 ± 1.0 dB	60 W, max	60 W, max	1.8 dB, max
Model: C-1352-07-N	7 ± 1.0 dB	75 W, max	75 W, max	1.7 dB, max
Model: C-1352-10-N	10 ± 1.2 dB	100 W, max	100 W, max	0.9 dB, max
Model: C-1352-15-N	15 ± 1.5 dB	200 W, max	200 W, max	0.4 dB, max
Model: C-1352-20-N	20 ± 1.8 dB	200 W, max	200 W, max	0.3 dB, max
Model: C-1352-30-N	30 ± 2.0 dB	200 W, max	200 W, max	0.3 dB, max
Model: C-1352-40-N	40 ± 2.5 dB	40 dB is built as 30 with internal 10-dB pad on coupled port.		
1. Design to meet for load VSWR 1.20:1 max, no DC current, up to +25 °C. De-rate linearly to 5W at +100 °C.				
Coupling Flatness	± 1.0 dB max ± 1.2 dB max ± 1.5 dB max	For coupling values: 3, 5, 6 and 7 dB For coupling values: 10 and 15 dB For coupling values: 20 and 30 dB		
Directionality	18 dB min 20 dB min	For coupling values: 3 thru 8 dB. For coupling values: 10 thru 40 dB.		
Main Line VSWR	1.3:1 max	1.1:1 typical.		
Coupling VSWR	1.3:1 max	1.2:1 typical.		
Impedance	50 ohms	Design to meet.		

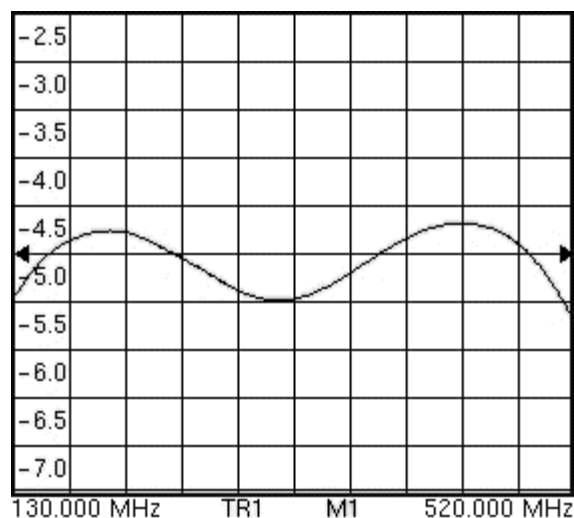
Mechanical Specifications

Parameter	Target Specification	Notes
Operating Temperature	-55 to +85 °C	Design to meet.
Storage Temperature	-55 to +100 °C	
Operating Humidity	90% max	Non-condensing
Finish	Clear Alodine	
Weight	20 oz / 570 g	Nominal

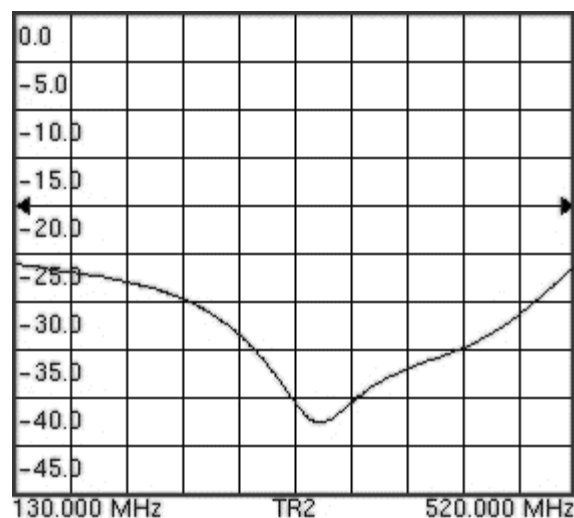
Test Data Plots

Data is representative. Actual unit performance may vary.

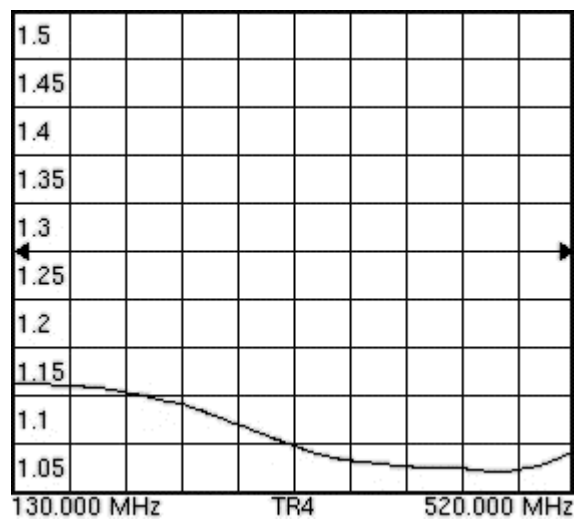
Coupling Value and Flatness



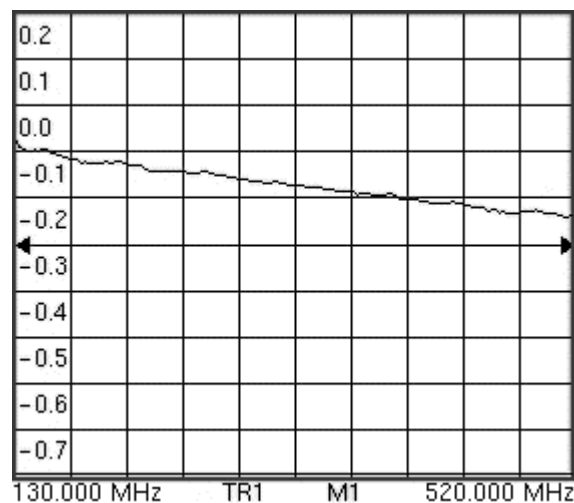
Directionality



Return Loss or VSWR



Main Line Insertion Loss



Material Declaration

Component	Material
RoHS Compliance	To the best of our knowledge, this product and its components are RoHS compliant per the latest directive. Non-RoHS (example: lead-based solder alloy) is available but must be explicitly stated on purchase order.
Housing	Aluminum alloy 6061
Cover	Aluminum alloy 6061
Connectors	Brass, Tri-Alloy Plate
Hardware	Stainless Steel
Insulators	PTFE
Contact	Beryllium copper, gold plated
Internal components	Proprietary; RoHS compliant based on manufacturer declaration
Solder alloy	Sn 96.5, Ag 3.0, Cu 0.5