



QPQ1295

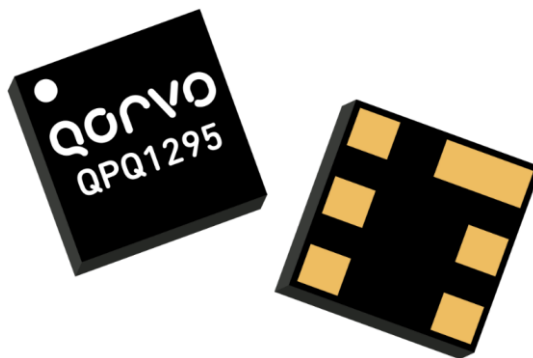
Band 25 Downlink BAW Filter

Product Overview

The QPQ1295 is an exceptionally high performance BAW filter for Band 25 Downlink. This filter is housed in a compact 3.00x3.00 x 0.91 mm package for base station applications.

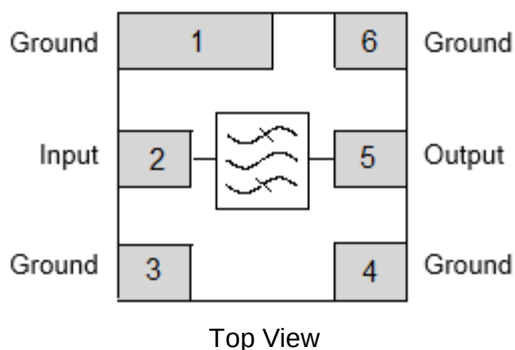
Low insertion loss, coupled with high attenuation makes this filter an ideal choice for RF filtering needs.

The QPQ1295 is part of Qorvo's extensive portfolio of RF BAW and SAW filters.



6 Pad 3.00 mm x 3.00 mm x 0.91 mm SMP

Functional Block Diagram



Key Features

- 65 MHz Bandwidth
- High Attenuation
- Low Loss
- Single-ended Operation
- Small Size: 3.00x3.00x0.91 mm
- Surface Mount Device
- RoHS Compliant, Pb-Free

Applications

- Band 25 DL
- Small Cell
- Base Station Infrastructure
- General Purpose Wireless

Pin Configuration - Single Ended

Pin No.	Label
2	Input
5	Output
1, 3, 4, 6	Ground

Ordering Information

Part No.	Description
QPQ1295SR	Sample Reel with 100 pieces
QPQ1295TR7	7" Taped Reel with 2500 pieces
QPQ1295EVB	Assembled Evaluation Board

Absolute Maximum Ratings ⁽¹⁾

Parameter	Rating
Storage Temperature	-40 to +125°C
Operating Temperature	0 to +70 °C
RF in ⁽²⁾	+39 dBm

Notes:

1. Operation of this device outside the parameter ranges given may cause permanent damage.
2. CW pulses of 500ms ON time, 10s OFF time.

Minimum Lifetime Ratings

Conditions	Rating
+27 dBm DL, +70°C, CW	>1,000,000 hours
+30 dBm DL, +55°C, CW	>10,000 hours

Electrical Specifications ⁽¹⁾

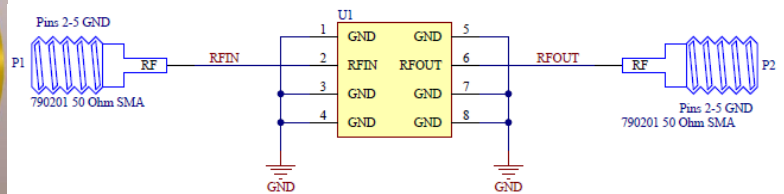
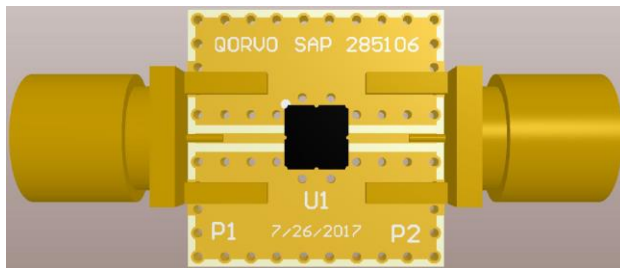
Test conditions unless otherwise specified. Temperature Range: 0 to +70 °C

Parameter	Conditions ^(1, 2)	Min	Typ	Max	Unit
Insertion Loss ⁽²⁾	1930 – 1932 MHz	-	3.4	5.0	dB
	1932 – 1935 MHz	-	2.7	4.1	dB
	1935 – 1995 MHz	-	1.9	3.0	dB
Input / Output VSWR	1930 – 1995 MHz	-	1.6:1	2.1:1	
Attenuation ⁽⁴⁾	1710 – 1755 MHz	30	35	-	dB
	1850 – 1910 MHz	35	43	-	dB
	1910 – 1915 MHz	32	41	-	dB
	1915 – 1920 MHz	20	36	-	dB
	1915 – 1922.5 MHz at +25°C	15	22	-	dB
	2100 – 3000 MHz	30	37	-	dB
	3000 – 6000 MHz	20	29	-	dB

Notes:

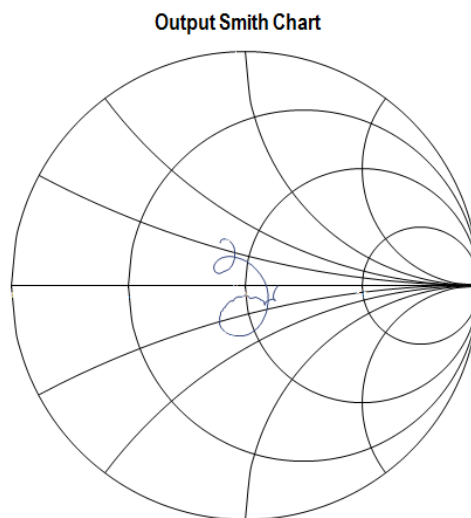
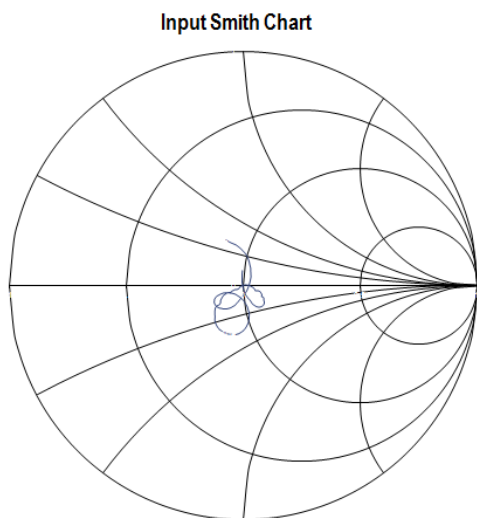
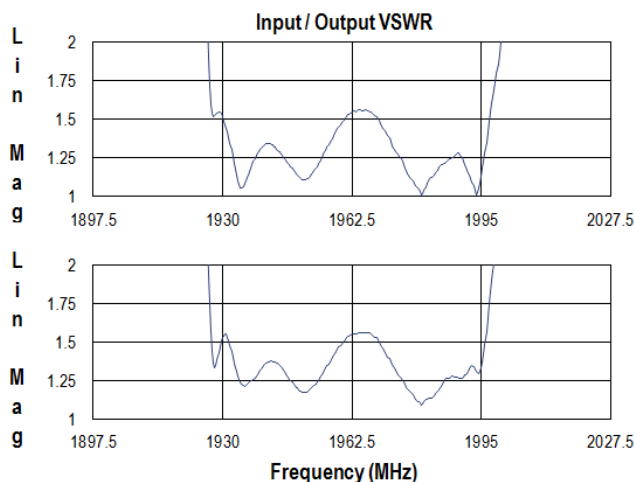
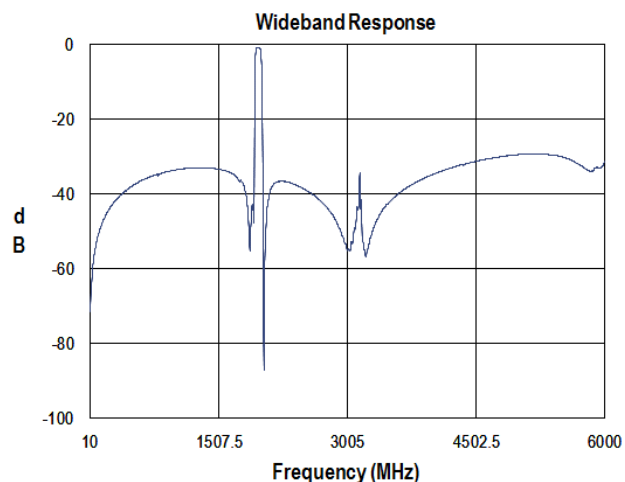
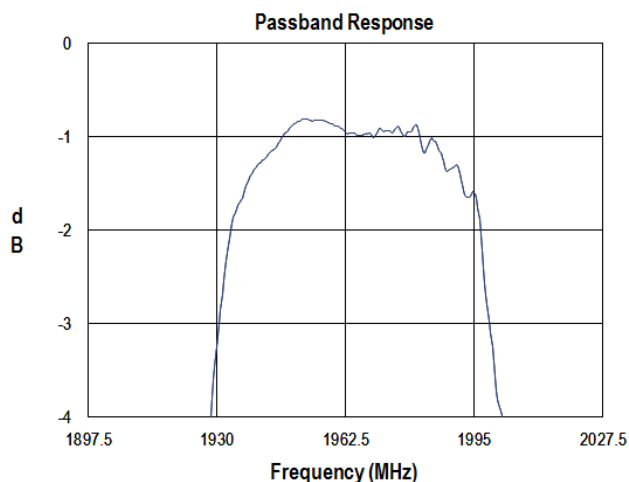
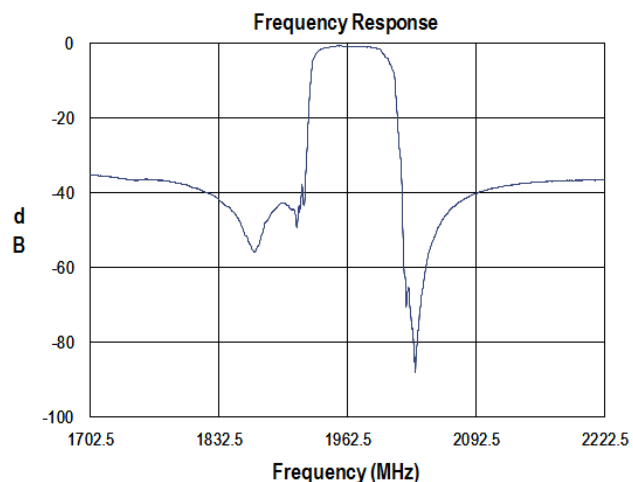
1. All specifications are based on the QORVO schematic for the main reference design.
2. Maximum Insertion Loss within defined frequency range.
3. Attenuation is referenced to zero dB

Evaluation Board and Schematic – QPQ1295EVB

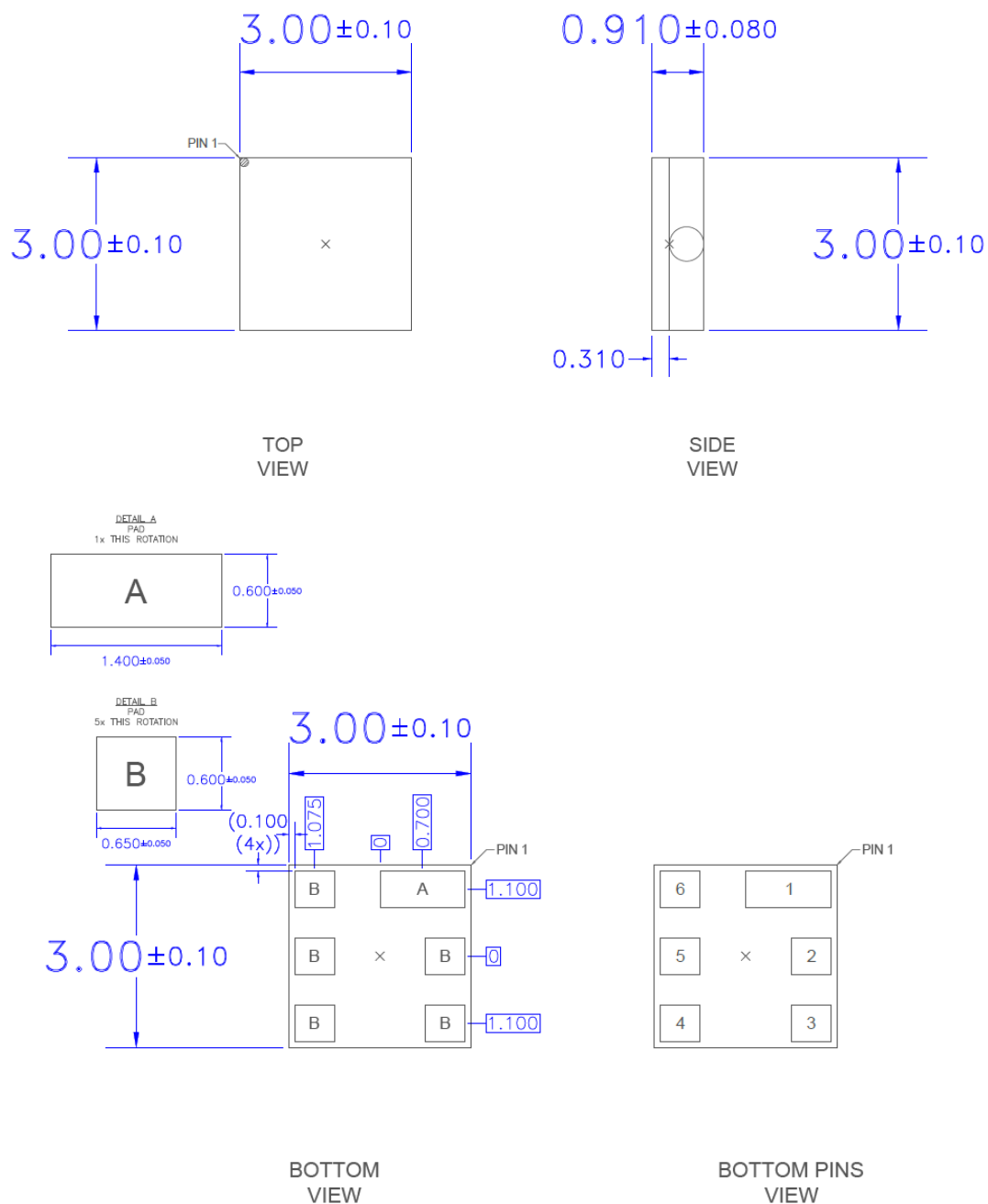


Performance Plots

Test conditions unless otherwise noted: Temp= +25°C



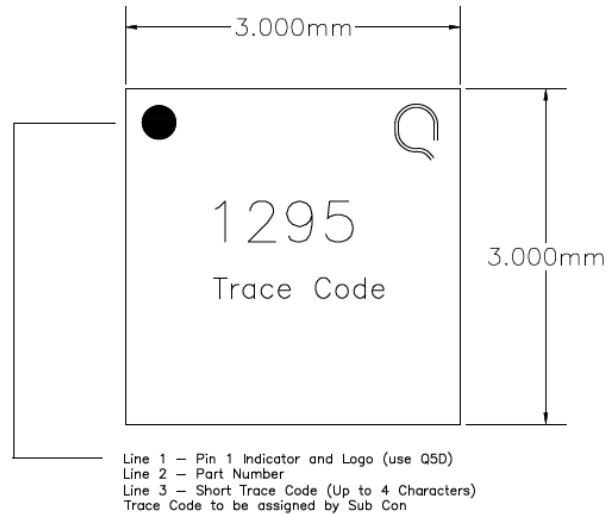
Package Dimensions



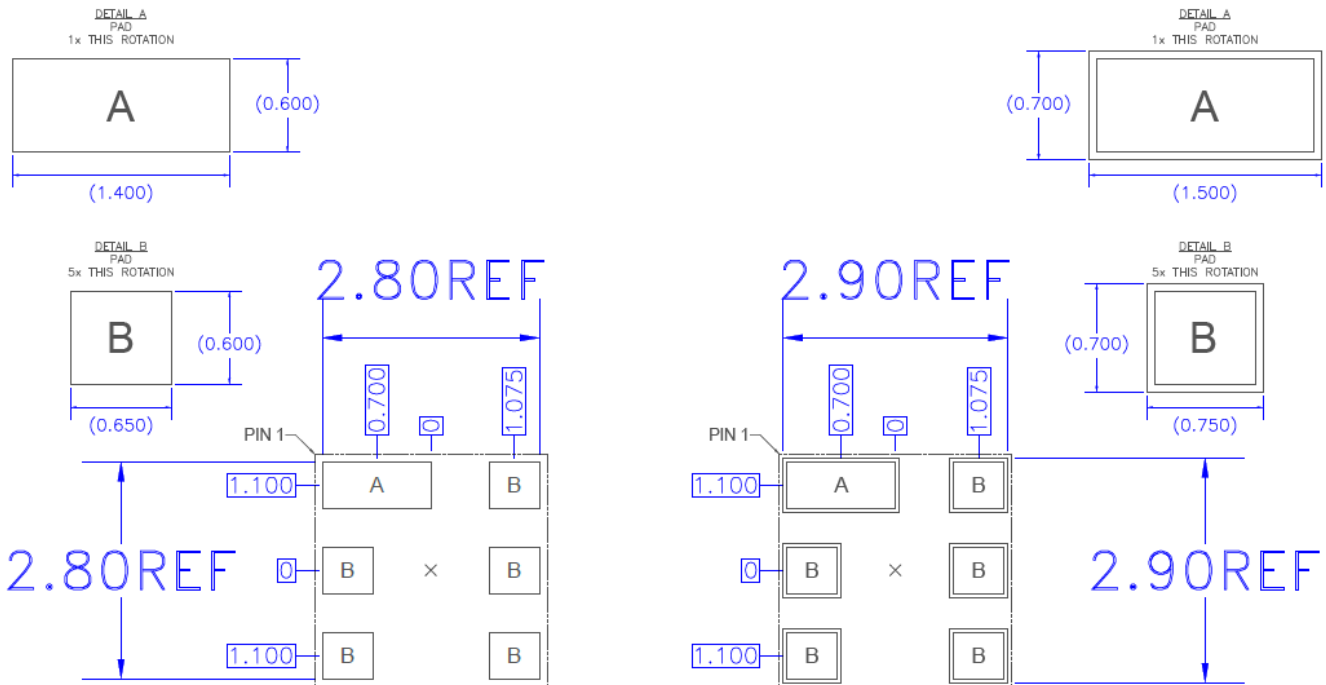
Notes:

1. All dimensions are in millimeters. Angles are in degrees.
2. Dimension and tolerance formats conform to ASME Y14.4M-1994.
3. The terminal #1 identifier and terminal numbering conform to JESD 95-1 SPP-012.

Package Marking



PCB Mounting Pattern

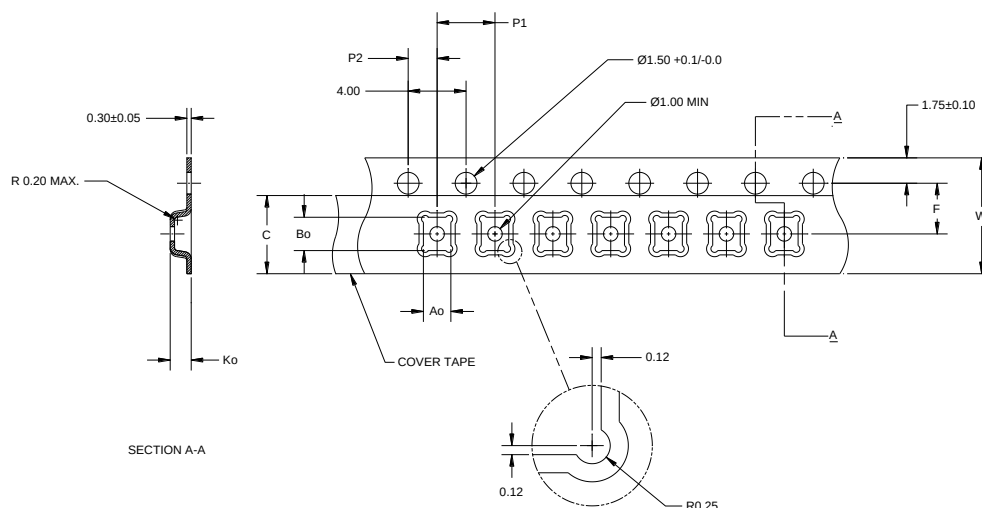


Notes:

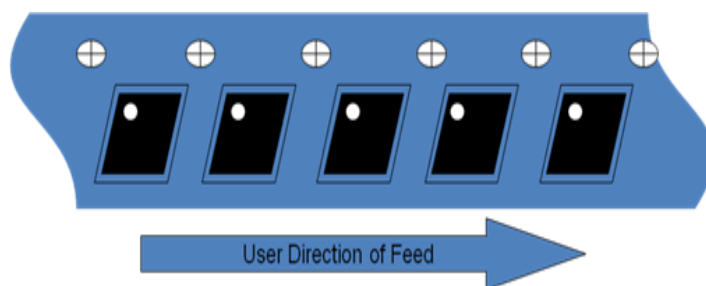
1. All dimensions are in millimeters. Angles are in degrees.
2. This drawing specifies the mounting pattern used on the Qorvo evaluation board for this product. Some modification may be necessary to suit end user assembly materials and processes.

Tape and Reel Information – Carrier and Cover Tape Dimensions

Tape and reel specifications for this part are also available on the Qorvo website.
Standard T/R size = 2500 pieces on a 7" reel.

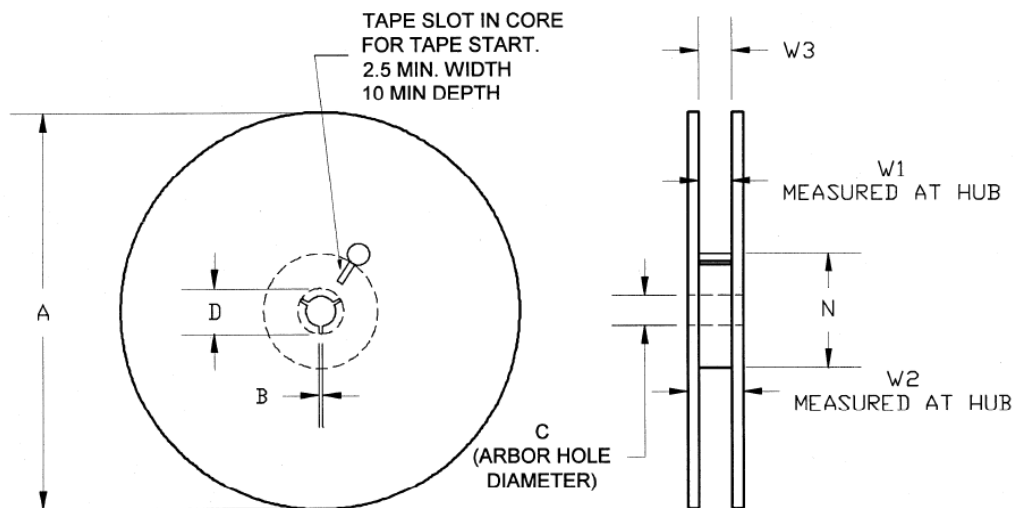


Feature	Measure	Symbol	Size (in)	Size (mm)
Cavity	Length	A0	0.132	3.35
	Width	B0	0.132	3.35
	Depth	K0	0.051	1.30
	Pitch	P1	0.157	4.00
Centerline Distance	Cavity to Perforation - Length Direction	P2	0.079	2.00
	Cavity to Perforation - Width Direction	F	0.138	3.50
Cover Tape	Width	C	0.213	5.40
Carrier Tape	Width	W	0.315	8.00



Tape and Reel Information – Reel Dimensions

Tape and reel specifications for this part are also available on the Qorvo website.
 Standard T/R size = 2500 pieces on a 7" reel.



Feature	Measure	Symbol	Size (in)	Size (mm)
Flange	Diameter	A	6.969	177.0
	Thickness	W2	0.559	14.2
	Space Between Flange	W1	0.346	8.8
Hub	Outer Diameter	N	2.283	58.0
	Arbor Hole Diameter	C	0.512	13.0
	Key Slit Width	B	0.079	2.0
	Key Slit Diameter	D	0.787	20.0

Handling Precautions

Parameter	Rating	Standard
ESD – Human Body Model (HBM)	Class 1C	ESDA / JEDEC JS-001-2012
ESD – Charged Device Model (CDM)	Class C3	ESDA / JEDEC JS-002-2014
MSL – Moisture Sensitivity Level	Level 3	IPC/JEDEC J-STD-020



Caution!
ESD-Sensitive Device

Solderability

Compatible with both lead-free (260°C max. reflow temp.) and tin/lead (245°C max. reflow temp.) soldering processes. Solder profiles available upon request.

Contact Plating: Ni / Au

RoHS Compliance

This part is compliant with 2011/65/EU RoHS directive (Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment) as amended by Directive 2015/863/EU.

This product also has the following attributes:

- Lead Free
- Halogen Free (Chlorine, Bromine)
- Antimony Free
- TBBP-A (C₁₅H₁₂Br₄O₂) Free
- PFOS Free
- SVHC Free



Contact Information

For the latest specifications, additional product information, worldwide sales and distribution locations:

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Tel: 1-844-890-8163

Email: customer.support@qorvo.com

For technical questions and application information: Email: appsupport@qorvo.com

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